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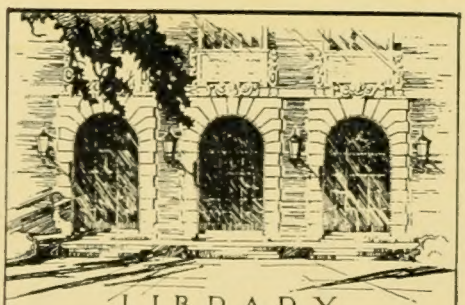

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Occasional Papers
OF THE
Boston Society of Natural History.
VII.

FAUNA OF NEW ENGLAND.

PART 1.

LISTS OF THE VERTEBRATA.

BOSTON:
PRINTED FOR THE SOCIETY FROM THE
GURDON SALTONSTALL FUND.
1904–1909.

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VII.

FAUNA OF NEW ENGLAND.

1.

LIST OF THE REPTILIA.

By SAMUEL HENSHAW.

BOSTON:
PRINTED FOR THE SOCIETY FROM THE
GURDON SALTONSTALL FUND.
March, 1904.

REPTILIA.

	Me.	N. H.	Vt	Mass.	R. I.	Conn.
Dermochelys coriacea	—			+	—	—
Chelydra serpentina	—	—	—	+	—	—
Cinosternum odoratum	—	—		+	—	—
Chrysemys picta	—	—	+	+	—	—
Clemmys guttata	—	—		+	—	—
insculpta	—	+	—	+		—
Emys blandingii		—		+	—	
Malacoclemmys terrapin				—	—	—
geographica			—			
Cistudo carolina	—	—		+	—	—
Chelonia mydas				+	—	—
Thalassochelys caretta				+		
Trionyx spinifer			—			
Sceloporus undulatus						—
Cnemidophorus sexlineatus						—
Eumeces quinquelineatus				+		—
Carphophiops amoenus	—	—		—		—
Diadophis punctatus	+	—	—	+	—	—
Heterodon platirhinos		—		+	—	—
Liopeltis vernalis	—	—	—	+	—	+
Cyclophis aestivus						—
Zamenis constrictor	—	+	—	+	—	—
Coluber vulpinus				—		
obsoletus		—		—		—
Osceola doliata triangula	+	—	—	+	—	—
Ophibolus getulus getulus						—
Natrix fasciata sipedon	+	—	—	+	—	—
leberis						—
Storeria dekayi	—	—	+	+	—	+
occipitomaculata	+	—	—	+		—
Haldea striatula				—		
Eutaenia saurita	—	+	—	+		—
sirtalis sirtalis	—	—	—	+	—	—
pallidula	+	—				
graminea	—			—		
ordinata	—	—	—	+		
Ancistrodon contortrix			—	—		—
Crotalus horridus	—	+	—	+	—	—

REPTILIA.

CHELONIA. ATHECAE.

DERMOCHELYDIDAE.

1. DERMOCHELYS CORIACEA (Linné.) Boul.

Marine leather turtle; **Luth**; **Leathery turtle**.

Testudo coriacea Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 350. "MARI MEDITERRANEO, ADRIATICO".

Sphargis coriacea Linné. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 2, p. 45, pl. 6.

Marine.

ME.— Near Portland, off Saco, Penobscot Bay.

MASS.— Off Rockport, Annisquam, Salem, Nahant; Massachusetts Bay, near Cape Cod.

R. I.— Near Newport.

CONN.— Long Island Sound.

THECOPHORA.

CHELYDRIDAE.

2. CHELYDRA SERPENTINA (Linné.) Schweigg.

Snapping turtle; **Snake tortoise.**

Testudo serpentina Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 199. "CALIDIS REGIONIBUS."

Chelonura serpentina Linné. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 1, p. 139, pl. 23.

Stagnant pools, sluggish streams.

ME. to CONN.

CINOSTERNIDAE.

3. CINOSTERNUM ODORATUM (Latreille.) Bonap.

Mud turtle; **Musk turtle**; **Stink pot**.

CHELONIA. THECOPHORA.

CINOSTERNIDAE.

Testudo odorata Latr., Hist., nat. reptiles, 1802, vol. 1, p. 122, pl. —, fig. 3. "CAROLINE."

Sternothaerus odoratus Bosc. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 1, p. 133, pl. 22.

Deeper waters of ponds and pools.
ME. to CONN.

TESTUDINIDAE.

4. CHRYSEMYS PICTA (Schneider.) Gray.

Painted terrapin; Mud turtle; Soldier turtle.

Testudo picta Schn., Allg. naturg. schildkröten, 1783, p. 348.—

Emys picta Schn. Holbr. N. Amer. herpt., ed. 2, 1842, vol. 1, p. 75, pl. 10.

Ditches, ponds, streams.
ME. to CONN.

5. CLEMMYS GUTTATA (Schneider.) Strauch.

Spotted turtle; Mud turtle.

Testudo guttata Schn., Schrift. Berl. gesellsch. nat. freunde, 1792, vol. 10, p. 264.——

Emys guttata Schn. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 1, p. 81, pl. 11.

Ponds and streams.
ME. to CONN.

6. CLEMMYS INSCULPTA (Leconte.) Strauch.

Wood tortoise; Sculptured tortoise.

Testudo insculpta Leconte, Ann. lyc. nat. hist. N. Y., 1830, vol. 3, p. 112. "NORTHERN STATES".

Emys insculpta Leconte. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 1, p. 93, pl. 13.

Ponds and streams; in summer in dry fields.
ME. to CONN.

7. EMYS BLANDINGII (Holbrook.) Strauch.

Blanding's tortoise.

Cistudo blandingii Holbr., N. Amer. herpt., 1838, vol. 3, p. 35, pl. 5. "FOX RIVER"; ed. 2, 1842, vol. 1, p. 39, pl. 3.

Semiaquatic, vicinity of streams and ponds.
N. H.
MASS.— Lancaster, Concord, North Reading, Haverhill, Tyngsborough.
R. I.

8. MALACOCLEMMYS TERRAPIN (Schoepff.) Boul.

Terrapin.

Testudo terrapin Schoepff, Testvdinvm, 1793, p. 64, pl. 15, "AMERICA SEPTENTRIONALI."
Emys terrapin Schoepff. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 1, p. 87, pl. 12.

Salt marshes and contiguous waters.
MASS. to CONN.

9. MALACOCLEMMYS GEOGRAPHICA (Lesueur.) Cope.

Geographical terrapin.

Testudo geographica Les., Journ. acad. nat. sci. Phil., 1817, vol. 1, p. 86, pl. 5. "LAKE ERIE".
Emys geographica Les. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 1, p. 99, pl. 14.

Lakes and rivers.
VT.— Lake Champlain.

TESTUDINIDAE.

10. CISTUDO CAROLINA (Linné.) Gray.

Box turtle.

Holbr., N. Amer. herpt. ed. 2, 1842, vol. 1, p. 31, pl. 2.
Testudo carolina Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 198. "CAROLINA."

Terrestrial.
ME.
N. H.
MASS. to CONN.

CHELONIIDAE.

11. CHELONIA MYDAS (Linné.) Schweigger.

Green turtle; Edible turtle.

Holbr., N. Amer. herpt., ed. 2, 1842, vol. 2, p. 25, pl. 3.
Testudo mydas Linne, Syst. nat., ed. 10, 1758, vol. 1, p. 197. "INSULAS PELAGI: INSULAM ADSCENSIONIS &c."

Marine; chiefly in deep water.
MASS. to CONN.

12. THALASSOCHELYS CARETTA (Linné.) True.

Loggerhead turtle.

Testudo caretta Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 197. "INSULAS AMERICANAS."
Chelonia caretta Linné. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 2, p. 33, pl. 4.

Marine.
MASS.

TRIONYCHIDAE.

13. TRIONYX SPINIFER Lesueur.

Spiny soft-shelled turtle.

CHELONIA. THECOPHORA.

TRIONYCHIDAE.

Les., Mém. mus. hist. nat. Paris, 1827, vol. 15, p. 258, pl. 6. "NEWHARMONY SUR LE WABASH."

Trionyx ferox Schn. Holbr., N. Amer. herpt. ed. 2, 1842, vol. 2, p. 11, pl. 1.

Shallow water of lakes and streams.

VT.—LAKE CHAMPLAIN.

SAURIA. LACERTILIA.

IGUANIDAE.

14 (1). SCELOPORUS UNDULATUS (Latreille.) Wieg.

Pine lizard.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 368, fig. 57.

Stellio undulatus Latr., Hist. nat. reptiles, 1802, vol. 2, p. 40. "CAROLINE."

Tropidolepis undulatus Bosc. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 2, p. 73, pl. 9.

Fences and trees.

CONN.

TEIDAE.

15 (2). CNEMIDOPHORUS SEXLINEATUS (Linné.) Gray.

Striped lizard.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 593, fig. 116.

Lacerta 6-lineata Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 364. "CAROLINA."

Ameiva sex-lineata Linné. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 2, p. 109, pl. 15.

Among bushes in high, dry situations.

CONN.

SAURIA. LACERTILIA.

SCINCIDAE.

16 (3). EUMECES QUINQUELINEATUS (Linné.) Peters.

Blue-tailed lizard.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 632, fig. 125.

Lacerta 5-lineata Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 366. "CAROLINA."

Scincus quinquelineatus Linné. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 2, p. 121, pl. 17.

In earth, logs, and stumps, and under bark.

MASS.—New Bedford, Barre.

CONN.—New Haven, Salisbury, Trumbull.

OPHIDIA.

COLUBRIDAE.

17 (1). CARPHOPHIOPS AMOENUS (Say.) Dum. & Bibr.

Ground snake; Little red snake; Worm snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 735, fig. 151.

Coluber amoenus Say, Journ. acad. nat. sci. Phil., 1825, vol. 4, p. 237. "PENNSYLVANIA."

Brachyorrhos amaenus Say. Holbr., N. Amer. herpt. ed. 2, 1842, vol. 3, p. 115, pl. 27.

Subterrestrial, in damp localities under leaves, logs, and stones.

ME.

N. H.

MASS.

CONN.

18 (2). DIADOPHIS PUNCTATUS (Linné.) Baird & Gir.

Ring-necked snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 751, fig. 162.

Coluber punctatus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 376. "CAROLINA." Holbr., N. Amer. herpt., ed. 2, 1842, vol. 3, p. 81, pl. 18.

Under bark of trees, logs, and stones.
ME. to CONN.

19 (3). HETERODON PLATIRHINOS Latreille.

Hog-nosed snake; Flat-head; Blowing adder.

Latr., Hist. nat. reptiles, 1802, vol. 4, p. 32, pl. 3. "ENVIRONS DE PHILADELPHIE." Holbr., N. Amer. herpt., ed. 2, 1842, vol. 4, p. 67, pl. 17. Cope, Rept. U. S. nat. mus., 1898, 1900, p. 761, fig. 165, 166.

In dry and dusty fields; sandy districts near the coast.
N. H.
MASS. to CONN.

20 (4). LIOPELTIS VERNALIS (Harlan.) Cope.

Green snake; Grass snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 782, fig. 169.
Coluber vernalis Harlan, Journ. acad. nat. sci. Phil., 1827, vol. 5, p. 361. "PENNSYLVANIA AND NEW JERSEY." Holbr., N. Amer. herpt., ed. 2, 1842, vol. 3, p. 79, pl. 17.

In fields and meadows.
ME. to CONN.

21 (5). CYCLOPHIS AESTIVUS (Linné.) Günther.

Keeled green snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 784, fig. 170.
Coluber aestivus Linné. Syst. nat. ed. 12, 1766, vol. 1, p. 387. "CAROLINA."
Leptophis aestivus Linné. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 4, p. 17, pl. 3.

Arboreal.
CONN.— Plymouth co.

COLUBRIDAE.

22 (6). ZAMENIS CONSTRICTOR (Linné.) Boul.

Black snake; Black chaser.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 791, fig. 171.

Coluber constrictor Linné, Syst. nat. ed. 10, 1758, vol. 1, p. 216. "CANADA." Holbr., N. Amer. herpt., ed. 2, 1842, vol. 3, p. 55, pl. 11.

ME. to CONN.

23 (7). COLUBER VULPINUS (Baird & Girard.) Cope.

Fox snake; Pilot snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 831, fig. 188.

Scotophis vulpinus Baird & Gir., Cat. N. Amer. rept., 1853, pt. 1, p. 75. "RACINE, WIS."

MASS.— Wenham.

24 (8). COLUBER OBSOLETUS Say.

Pilot black snake.

Say, Long's exped., 1823, vol. 1, p. 140. "THE MISSOURI FROM THE VICINITY OF ISLE AU VACHE TO COUNCIL BLUFF." Cope, Rept. U. S. nat. mus., 1898, 1900, p. 844, fig. 194.

Coluber alleghaniensis Holbr., N. Amer. herpt., 1836, vol. 1, p. 111, pl. 20; ed. 2, 1842, vol. 3, p. 85, pl. 19.

Hollow logs and holes of trees.
N. H.
MASS.— Longmeadow, Mt. Tom.
CONN.— New Haven.

25 (9). OSCEOLA DOLIATA TRIANGULA (Boie.) Cope.

Milk snake; House snake; Chicken snake; Chequered adder.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 885, fig. 210.

Coluber triangulum Boie, Isis, 1827, vol. 20, p. 537. "AMERIKA."

Coluber eximius Dekay. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 3, p. 69, pl. 15.

In and about outhouses, in dairies and cellars.

ME. to CONN.

26 (10). OPHIBOLUS GETULUS GETULUS (Linné.) Cope.

Chain Snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 914, fig. 227.

Coluber getulus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 382. "CAROLINA."

Coronella getula Linné. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 3, p. 95, pl. 21.

Moist places.

CONN.— Milford.

27 (11). NATRIX FASCIATA SIPEDON (Linné.) Cope.

Water adder; Water snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 969, fig. 251.

Coluber sipedon Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 219. "AMERICA SEPTENTRIONALI."

Tropidonotus sipedon Linné. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 4, p. 29, pl. 6.

Upon branches of trees, in streams and ponds and along their banks.

ME. to CONN.

NOTE.—The specimen from Westfield Falls, Conn., identified as *Natrix fasciata erythrogaster* (Shaw) by Cope, Rept. U. S.

nat. mus., 1898, 1900, p. 977, is *N. f. sipedon* according to Stejneger, Amer. nat., 1901, vol. 35, p. 428.

28 (12). NATRIX LEBERIS (Linné.) Cope.

Yellow-bellied snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 993, fig. 265.

Coluber leberis Linné, Syst. nat. ed. 10, 1758, vol. 1, p. 216. "CANADA."

Tropidonotus leberis Linné. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 4, p. 49, pl. 13.

Aquatic.

CONN.— Orange, Canaan.

29 (13). STORERIA DEKAYI (Holbrook.) Baird & Girard.

Dekay's snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 1000, fig. 268.

Tropidonotus dekayi Holbr., N. Amer. herpt., ed. 2, 1842, vol. 4, p. 53, pl. 14. "MASSACHUSETTS, * * * NEW YORK.

Under flat stones and in earth under leaves.

ME. to CONN.

30 (14). STORERIA OCCIPITOMACULATA (Storer.) Baird & Girard.

Spotted-necked snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 1003, fig. 269.

Coluber occipito-maculatus Storer, Rept. reptiles Mass., 1839, p. 230. "AMHERST."

Under logs and stones.

ME. to CONN.

31 (15). HALDEA STRIATULA (Linné.) Baird & Girard.

Brown snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 1009, fig. 272.

Coluber striatulus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 275 [= 375]. "CAROLINA."

Calamaria striatula Linné. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 3, p. 123, pl. 29.

MASS.

32 (16). EUTAENIA SAURITA (Linné.) Baird & Girard.

Swift garter snake; Ribbon snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 1020, fig. 276.

Coluber saurita Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 385. "CAROLINA."

Leptophis sauritus Linné. Holbr., N. Amer. herpt., ed. 2, 1846, vol. 4, p. 21, pl. 4.

Meadows in the vicinity of streams.

ME. to CONN.

33 (17). EUTAENIA SIRTALIS SIRTALIS (Linné.) Cope.

Striped snake; Garter snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 1069, fig. 300.

Coluber sirtalis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 222. "CANADA."

Tropidonotus sirtalis Linné. Holbr. N. Amer. herpt., ed. 2, 1842, vol. 4, p. 41, pl. 11.

Moist places near water.

ME. to CONN.

34 (18). EUTAENIA SIRTALIS PALLIDULA (G. M. Allen.) Eckel.

Northern garter snake.

Thamnophis s. pallidula Allen, Proc. Bost. soc. nat. hist., 1899, vol. 29, p. 64. "INTERVALE, NEW HAMPSHIRE."

COLUBRIDAE.

ME.— Caribou.
N. H.— Intervale.

35 (19). EUTAENIA SIRTALIS GRAMINEA Cope.

Cope, Proc. U. S. nat. mus., 1888, vol. 11, p. 399. "SOUTHEASTERN INDIANA." Rept. U. S. nat. mus., 1898, 1900, p. 1066, fig. 298.

ME.—Androscoggin.
MASS.— Tuckernuck.

36 (20). EUTAENIA SIRTALIS ORDINATA (Linné.) Cope.

Grass snake.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 1067, fig. 299.
Coluber ordinatus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 379. "CAROLINA."
Tropidonotus ordinatus Linné. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 4, p. 45, pl. 12.

ME.
N. H.
MASS.

CROTALIDAE.

37 (21). ANCISTRODON CONTORTRIX (Linné.) Baird.

Copperhead; Viper; Deaf adder.

Cope, Rept. U. S. nat. mus., 1898, 1900, p. 1135, fig. 326.
Boa contortrix Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 373. "CAROLINA."
Trigonocephalus contortrix Linné. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 3, p. 39. pl. 8.

Meadows in the neighborhood of streams and ponds.
VT.
MASS.— Mt. Tom, Milton, Lynn.
CONN.— Near New Haven.

CROTALIDAE.

38 (22). CROTALUS HORRIDUS Linné.

Banded rattlesnake.

Linné, Syst. nat. ed. 10, 1758, vol. 1, p. 214. "AMERICA." Cope, Rept. U. S. nat. mus., 1898, 1900, p. 1185, fig. 342.

Crotalus durissus Linné. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 3, p. 9, pl. 1.

Rocky, wooded regions.

ME. to CONN.

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2.

LIST OF THE BATRACHIA.

By SAMUEL HENSHAW.

BOSTON:
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April, 1904.

BATRACHIA.

	Me	N. H.	Vt.	Mass.	R. I.	Conn.
Necturus maculatus			—			
Amblystoma opacum				—	—	—
punctatum	—	—	—	+	—	—
tigrinum	—			—		
jeffersonianum	—	—	—	+	—	—
Hemidactylium scutatum				+	—	—
Plethodon cinereus cinereus	—	—	—	—	—	—
erythronotus	+	+	—	+	—	—
glutinosus	—		—	—		—
Gyrinophilus porphyriticus	—	+	—	—		—
Spelerpes bilineatus	—	+	—	—		—
longicaudus				—		—
ruber	—	+		—		—
Desmognathus fusca	—	+	—	—	—	—
Diemyctylus viridescens	—	+	—	+	—	—
miniatus	—	+	—	—	—	—
Bufo lentiginosus fowleri				—		
americanus	—	+	—	+	—	—
Scaphiopus holbrookii				+		—
Acris gryllus crepitans						—
Hyla pickeringii	—	+	—	+	—	—
versicolor	—	+	—	+	—	—
Rana pipiens	—	+	—	+		—
palustris	—	—	—	+	—	—
clamata	+	—	+	+		—
catesbeiana	—	—	—	+	—	—
sylvatica	+	—	—	+	—	—

BATRACHIA.

NEOBATRACHIA. URODELA.

PROTEIDAE.

1. NECTURUS MACULATUS Rafinesque.

Mud puppy; Water dog; Gilled salamander.

Raf., Journ. phys., 1819, vol. 88, p. 418. "ETATS UNIS." Cope, Bull. 34, U. S. nat. mus., 1889, p. 23, fig. 3, no. 1–7, pl. 1–2; 3, fig. 1–2; 4; 13, fig. 1; 45, fig. 2; 46, fig. 1; 48, fig. 1; 52, fig. 1; 56, fig. 1.

Menobranchus maculatus Barnes. Holbrook, N. Amer. herpt., ed. 2, 1842, vol. 5, p. 111, pl. 36 [=37].

VT.— Lake Champlain, Falls of Onion river near Burlington.

AMBLYSTOMIDAE.

2. AMBLYSTOMA OPACUM (Gravenhorst.) Baird.

Marbled salamander; Banded salamander.

Cope, Bull. 34, U. S. nat. mus., 1889, p. 54, fig. 8, pl. 19, fig. 1–3; 20; 21, fig. 3–4; 45, fig 4.

Salamandra opaca Grav., Verg. zool. syst., 1807, p. 431. "NEW YORK."

Salamandra fasciata Green. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 5, p. 71, pl. 23.

Terrestrial; under stones and in holes in stumps.

MASS.— Springfield, Fall River, New Bedford.

R. I.

CONN.— New Haven.

AMBLYSTOMIDAE.

3. AMBLYSTOMA PUNCTATUM (Linné.) Baird.

Large-spotted salamander.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 56, fig. 9, pl. 14–18; 21, fig. 1–2; 25, fig. 4–5; 32, fig. 4; 41, fig. 2; 48, fig. 10.

Lacerta punctata Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 370. "CAROLINA."

Salamandra venenosa Barton. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 5, p. 67, pl. 22.

Under stones and logs.

ME. to CONN.

4. AMBLYSTOMA TIGRINUM (Green.) Baird.

Tiger salamander.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 68, fig. 12, pl. 25, fig. 7; 48, fig. 9.

Salamandra tigrina Green, Journ. acad. nat. sci. Phil., 1825, vol. 5, p. 116. "NEAR MOORE'S TOWN IN NEW JERSEY."

Triton tigrinus Green. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 5, p. 79, pl. 26.

Partially aquatic; under logs and in moist earth near water.

ME.— Auburn.

MASS.— Salem.

5. AMBLYSTOMA JEFFERSONIANUM (Green.) Baird.

Jefferson's salamander.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 89, fig. 15, pl. 25, fig. 9.

Salamandra jeffersoniana Green, Contrib. Maclurean lyc., 1827, vol. 1, p. 4, pl. — fig. 1, "CANNONSBURG, PA." Holbr., N. Amer. herpt., ed. 2, 1842, vol. 5, p. 51, pl. 14.

Under logs in damp situations.

ME. to CONN.

PLETHODONTIDAE

6. HEMIDACTYLIUM SCUTATUM (Schlegel.) Tschudi.

Scaly salamander; **Four-toed salamander**.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 130, fig. 29, pl. 35, fig. 5; 46, fig. 8; 48, fig. 11.

Salam. scutata Schl., Fauna Japonica, 1838, p. 119. "NASHVILLE AU TENNESSEE."

Under stones, logs, and boards.

MASS.— Beverly, Gloucester.

R. I.

CONN.— New Haven.

7. PLETHODON CINEREUS CINEREUS (Green.) Cope.

Ashy salamander.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 134.

Salamandra cinerea Green, Journ. acad. nat. sci. Phil., 1818, vol. 1, p. 356. "NEWJERSEY."

Terrestrial; under stones, logs, and leaves in damp places.

ME. to CONN.

8. PLETHODON CINEREUS ERYTHRONOTUS (Green.) Cope.

Red-backed salamander.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 135, fig. 30, pl. 19, fig. 4–6.

Salamandra erythronota Green, Journ. acad. nat. sci. Phil., 1818, vol. 1, p. 356. "NEWYORK, * * * NEWJERSEY." Holbr., Amer. herpt., ed. 2, 1842, vol. 5, p. 43, pl. 11.

Terrestrial; in damp situations under logs, stones, etc.

ME. to CONN.

9. PLETHODON GLUTINOSUS (Green.) Tschudi.

Blue-spotted salamander; **Slimy salamander**.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 139, fig. 31, pl. 26; 31, fig. 6; 35, fig. 2; 40, fig. 4; 45, fig. 5; 48, fig. 14.

Salamandra glutinosa Green, Journ. acad. nat. sci. Phil., 1818, vol. 1, p. 357. —— Holbr., N. Amer. herpt., ed. 2, 1842, vol. 5, p. 39, pl. 10.

Terrestrial; under logs and stones.
Me.
Vt.
Mass.— Ipswich, Springfield.
Conn.— Northford.

10. Gyrinophilus porphyriticus (Green.) Cope.

Purple salamander.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 155, fig. 37, pl. 30, fig. 6; 33; 34, fig. 1–4; 35, fig. 6; 40, fig. 3; 42, fig. 1; 48, fig. 13.

Salamandra porphyritica Green, Contrib. Maclurean lyc., 1827, vol. 1, p. 3, pl.— fig. 2. "Near Meadville, Crawford, Pa."

Triton porphyriticus Green. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 5, p. 83, pl. 28.

In moss and damp earth.
Me.— Norway.
N. H.— Bridgewater.
Vt.
Mass.— Springfield, Danvers.
Conn.— Stonington.

11. Spelerpes bilineatus (Green.) Baird.

Two-striped salamander; Striped-backed salamander.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 163, fig. 40, pl. 28, fig. 4–6.

Salamandra bislineata Green, Journ. acad. nat. sci. Phil., 1818, vol. 1, p. 352 ——

Salamandra bilineata Green. Holbr. N. Amer. herpt., ed. 2, 1842, vol. 5, p. 55, pl. 16.

Under leaves, stones, and sticks near streams; under stones in brooks.

ME.— Paris Hill, Auburn.

N. H.— Meredith Bridge, Squam Lake, Intervale.

VT.

MASS.— Springfield, Salem.

CONN.— Orange.

12. SPELERPES LONGICAUDUS (Green.) Baird.

Cave salamander: Long-tailed salamander.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 168, fig. 41, pl. 28, fig. 1–3; 35, fig. 11, 42, fig. 2.

Salamandra longicauda Green, Journ. acad. nat. sci. Phil., 1818, vol. 1, p. 351. "NEWJERSEY." Holbr., N. Amer. herpt., ed. 2, 1842, vol. 5, p. 61, pl. 19.

Rocky situations.

MASS.

CONN.— Salisbury.

13. SPELERPES RUBER (DAUDIN.) Gray.

Red salamander; Brown-spotted salamander.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 172, fig. 43, pl. 29; 30, fig. 1–5; 31, fig. 1–5; 32, fig. 1–3; 35, fig. 7–10; 40, fig. 1–2; 41, fig. 1; 45, fig. 6; 48, fig. 16.

Salamandra rubra Daud., Hist. nat. reptiles, 1803, vol. 8, p. 227, pl. 97, fig. 2. "ETATS-UNIS." Holbr., N. Amer. herpt., ed. 2, 1842, vol. 5, p. 35, pl. 9.

PLETHODONTIDAE.

Under stones in running water.
ME.
N. H. — White Mountains.
MASS.— Groton.
CONN.— Canaan.

DESMOGNATHIDAE.

14. DESMOGNATHUS FUSCA (Rafinesque.) Baird.

Brown Triton; Dusky salamander; Black ebbet.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 194, fig. 48, pl. 34, fig. 5–6; 36, fig. 1; 45, fig. 7.

Triturus fuscus Raf., Annals of nature, 1820, p. 4. "STATE OF NEW YORK."

Salamandra quadrimaculata Holbr., N. Amer. herpt., 1840, vol. 4, p. 121, pl. 26; ed. 2, 1842, vol. 5, p. 49, pl. 13.[1]

Aquatic; under stones, logs, and leaves near and in rapid, shallow streams.
ME. to CONN.

PLEURODELIDAE.

15. DIEMYCTYLUS VIRIDESCENS (Rafinesque.) Hallowell.

Many-spotted salamander; Green ebbet.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 207, fig. 52, pl. 36, fig. 3–4; 39; 40, fig. 5–9; 41, fig. 3–4; 42, fig. 3; 45, fig. 9; 49, fig. 4.

Triturus viridescens Raf., Annals of nature, 1820, p. 5. "IN LAKE GEORGE, LAKE CHAMPLAIN."

[1] In the issue of 1840, the specific name is *maculo-quadrata* in the text, and *quadramaculata* on the plate.

NEOBATRACHIA URODELA.

PLEURODELIDAE.

Salamandra symmetrica Harlan. Holbr., N. Amer. herpt., 2, 1842, vol. 5, p. 57, pl. 17.

Aquatic; ponds and pools.
ME. to CONN.

16. DIEMYCTYLUS MINIATUS (Rafinesque.) Hallowell.

Symmetrical salamander; Red ebbet.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 207, fig. 53.
Triturus miniatus Raf., Annals of nature, 1820, p. 5. "NEW YORK, NEW JERSEY, CONNECTICUT, VERMONT, &c."

Aquatic; ponds and pools.
ME. to CONN.

ANURA.

BUFONIDAE.

17 (1). BUFO LENTIGINOSUS FOWLERI Cope.

Fowler's toad; Danver's toad.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 279, fig. 68 "MASSACHUSETTS NEAR THE TOWN OF DANVERS."

MASS.—Danvers.

18 (2). BUFO LENTIGINOSUS AMERICANUS (Holbrook.) Cope.

American toad.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 284, fig. 70, pl. 49, fig. 7; 57, fig. 1; 58, 59; 69, fig. 9.
Bufo americanus Leconte. Holbr., N. Amer. herpt., 1836, vol. 1, p. 75, pl. 9 "MAINE THROUGH ALL THE ATLANTIC STATES * * * SOUTH CAROLINA."; ed. 2, 1842, vol. 5, p. 17, pl. 4.

Gardens.
ME. to CONN.

SCAPHIOPIDAE.

19 (3). SCAPHIOPUS HOLBROOKII (Harlan.) Baird.

Spade-footed toad.

Cope, Bull. 34, U. S. nat. mus., 1889, p. 298, fig. 74, pl. 57, fig. 2; 68, fig. 3; 73, fig. 32.

Rana holbrookii Harlan, Med. phys. researches, 1835, p. 105. "SOUTH CAROLINA."

Scaphiopus solitarius Dum. & Bibr. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 4, p. 109, pl. 27.

Subterrestrial.

MASS.— Danvers, Cambridge, Springfield.

CONN.— New Haven.

HYLIDAE.

20 (4). ACRIS GRYLLUS CREPITANS (Baird.) Cope.

Cricket frog.

Cope, Bull. 34 U. S. nat. mus., 1889, p. 326, 460, fig. 82.

Acris crepitans Baird, Proc. acad. nat. sci. Phil., 1854, p. 59. "NORTHERN STATES." Rept., U. S. Mex. bound. surv. Reptiles, 1859, vol. 2, pt. 2, p. 28, pl. 37, fig. 14–17.

In meadows near streams and pools.

CONN.— Near New Haven.

21 (5). HYLA PICKERINGII (Storer.) Leconte.

Piping tree frog.

Cope, Bull. 34, U. S. nat. mus., 1889, p. 352, fig. 88, pl. 78, fig. 1–19.

Hylodes pickeringii Storer, Reptiles of Massachusetts, 1839, p. 240. "DANVERS." Holbr., N. Amer. herpt., ed. 2, 1842, vol. 4, p. 135, pl. 34.

Aquatic for several weeks in the spring; low bushes.

ME. to CONN.

HYLIDAE.

22 (6). HYLA VERSICOLOR Leconte.

Common tree frog.

Leconte Ann. lyc. nat. hist. N. Y., 1825, vol. 1, p. 281. "NORTHERN STATES." Holbr., N. Amer. herpt., ed. 2, 1842, p. 115, pl. 28. Cope, Bull. 34, U. S. nat. mus., 1889, p. 373, fig. 95, pl. 64.

Trees, vines, and fences.
ME. to CONN.

RANIDAE.

23 (7). RANA PIPIENS Gmelin.

Leopard frog.

Gmel., Syst. nat., Linne, ed. 13, 1788, vol. 1, p. 1052. "AMERICAE SEPTENTRIONALIS."
Rana halecina Kalm. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 4, p. 91, pl. 22.
Rana virescens brachycephala Cope, Bull. 34, U. S. nat. mus., 1889, p. 403, fig. 101.

Ponds and streams.
ME. to MASS.
CONN.

24 (8). RANA PALUSTRIS Leconte.

Pickerel frog; Marsh frog.

Leconte, Ann. lyc. nat hist. N. Y., 1825, vol. 1, p. 282.——
Holbr., N. Amer. herpt., ed. 2, 1842, vol. 4, p. 95, pl. 23. Cope, Bull. 34, U. S. nat. mus., 1889, p. 406, fig. 102, pl. 57, fig. 3.

Cold streams and ponds, grassy meadows.
ME. to CONN.

RANIDAE.

25 (9). RANA CLAMATA Daudin.

Green frog.

Daud., Hist. nat. reptiles, 1803, vol. 8, p. 104. "CAROLINE, AUX ENVIRONS DE CHARLESTOWN" [= CHARLESTON]. Cope, Bull. 34, U. S. nat. mus., 1889, p. 419, fig. 107, pl. 51, fig. 2–3; 75, fig. 19, 33.

Rana clamitans Bosc. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 4, p. 85, pl. 20.

Ponds and streams.
ME. to MASS.
CONN.

26 (10). RANA CATESBEIANA Shaw.

Bull frog.

Shaw, General zoology, Amphibia, 1802, vol. 3, p. 106, pl. 33. "NORTH AMERICA." Cope, Bull. 34, U. S. nat. mus., 1889, p. 424, fig. 108, pl. 50, fig. 3; 51, fig. 4–8; 55, fig. 7; 66; 67.

Rana pipiens Latr. Holbr., N. Amer. herpt., ed. 2, 1842, vol. 4, p. 77, pl. 18.

Lakes, ponds, and rivers.
ME. to CONN.

27 (11). RANA SYLVATICA Leconte.

Wood frog.

Leconte, Ann. lyc. nat. hist. N. Y., 1825, vol. 1, p. 282.—— Holbr., N. Amer. herpt., ed. 2, 1842, vol. 4, p. 99, pl. 24; Cope, Bull. 34 U. S. nat. mus., 1889, p. 447, fig. 115.

Terrestrial.
ME. to CONN.

Occasional Papers
OF THE
Boston Society of Natural History.
VII.

FAUNA OF NEW ENGLAND.

3.

LIST OF THE MAMMALIA.

By GLOVER M. ALLEN.

BOSTON:
PRINTED FOR THE SOCIETY FROM THE
GURDON SALTONSTALL FUND.
June, 1904.

MAMMALIA.

	Me.	N. H.	Vt.	Mass.	R. I.	Conn.
Didelphis virginiana				—	—	
Balaena glacialis	—			—	—	—
Megaptera nodosa	—	—		—		
Balaenoptera acuto-rostrata				—		
physalus	—	—		+	—	—
musculus	—			—		
Physeter macrocephalus	—			—	—	—
Hyperoodon ampullatum				—	—	—
Mesoplodon bidens				+		
Delphinapterus leucas	—	—		—	—	
Orcinus orca	—			—		
Globicephala melas	—			+	—	—
Grampus griseus				—		
Phocaena phocaena	—	—		+	—	—
Lagenorhynchus acutus				+		
Delphinus delphis				—	—	—
Tursiops truncatus	—			—	—	
Odocoileus virginianus borealis	+	—	—	—	—	—
Paralces americanus	+	+	—			
Rangifer caribou	+	—	—			
Sciurus carolinensis leucotis	—	—	—	+	—	—
hudsonicus	—	—	—			
loquax	—	—	—	+	—	—
rufiventer neglectus				—		—
Tamias striatus lysteri	—	+	+	+	+	—
Arctomys monax	—	—	—	+	—	—
Sciuropterus sabrinus macrotis	+	—	—	—		
volans	—	—	—	+	—	—
Castor canadensis	+	—	—	—	—	—
Mus musculus	—	—	—	+	—	—
norvegicus	—	—	—	+	—	—
rattus	—	—	—	+	—	—
Peromyscus canadensis	—	+	—	—		
leucopus noveboracensis	—	—	—	+	—	—
Neotoma pennsylvanica						—
Evotomys gapperi ochraceus	—	—	—	+	—	—
Microtus pennsylvanicus	—	—	—	+	—	—
shattucki	—					
breweri				—		

	Me.	N. H.	Vt.	Mass.	R. I.	Conn.
Microtus chrotorrhinus		+				
pinetorum scalopsoides				—	—	—
Fiber zibethicus	—	—	—	+	—	—
Synaptomys cooperi	—			—		
fatuus	—	—				
sphagnicola	—	—				
Zapus hudsonius	—	—	—	+	—	—
Napaeozapus insignis	—	+	—	—		
Erethizon dorsatum	+	—	—	—		
Lepus americanus virginianus	—	—	—	+	—	—
floridanus transitionalis		—	—	+	—	—
Phoca groenlandica				—		—
vitulina	—	—	—	+	—	—
Cystophora cristata	—			—	—	
Felis couguar	—	—	—	—	—	
Lynx canadensis	+	—	—	—		
ruffus	+	—	—	+	—	—
Urocyon cinereoargenteus borealis		—		—		—
Vulpes fulvus	—	—	—	+	—	—
Canis occidentalis	—	—	—	—		—
Lutra canadensis	+	—	—	+	—	—
Mephitis putida	—	—	—	+	—	—
Gulo luscus	—	—	—	—		
Putorius vison	+	—	—	+		
lutreocephalus	—			—	—	—
cicognanii	—	—	—	+	+	—
noveboracensis	—	—	—	—	—	—
occisor	—					
Mustela americana	+	—	—	—		
pennanti	+	—	—	—		
Procyon lotor	—	—	—	+	—	—
Ursus americanus	+	—	—	—		—
Sorex personatus	—	+	—	—	—	—
fumeus		+				
hoyi	—		—			
albibarbis	—	+		—		
Blarina brevicauda talpoides	—	—	—	+	—	—
aloga				—		
compacta				—		
Scalops aquaticus				—		—
Parascalops breweri	—	+	—	—		

	Me.	N. H.	Vt.	Mass.	R. I.	Conn.
Condylura cristata	—	—	—	+	—	—
Myotis lucifugus	—	—	—	—	—	—
subulatus	—	—	—	—	—	—
Lasionycteris noctivagans		—	—	+	—	
Pipistrellus subflavus obscurus	—			—		
Vespertilio fuscus	—	—	—	+	+	—
Lasiurus borealis	—	—	—	+	+	—
cinereus	—	+	—	+	—	—

MAMMALIA.

MARSUPIALIA. POLYPROTODONTIA.

DIDELPHIDAE.

1. DIDELPHIS VIRGINIANA Kerr.

Northeastern opossum; Virginia opossum.

Didelphis virginiana Kerr. Animal kingdom, 1792, p. 193. "VIRGINIA, ..."

Didelphis virginiana Kerr. Allen, Bull. Amer. mus. nat. hist., 1901, vol. 14, p. 160–165, pl. 23, fig. 4; pl. 25, fig. 3–4.

Didelphis virginiana Kerr. Stone & Cram, Amer. animals, 1902, p. 4–8, 4 pls.

Open woodlands, austral zones.

MASS.— Near Boston (introduced).

R. I.— (Probably introduced.)

CETE. MYSTACOCETI.

BALAENIDAE.

2. BALAENA GLACIALIS Bonnaterre.

Black whale; Right whale; Nord-caper.

Balena glacialis Bonn., Tabl. encycl. et méthod. d. trois règnes de la nat., cetologie, 1789, p. 3. "LES MERS DU NORD, PRÈS DES CÔTES DE NORVÈGE & D' ISLANDE."

Balaena cisarctica Cope. Holder, Bull. Amer. mus. nat. hist., 1883, vol. 1, p. 99–137, pl. 10–13.

Marine.

ME.

MASS.— Cape Cod; Nantucket.

R. I.

CONN.— Stonington.

BALAENIDAE.

3. MEGAPTERA NODOSA (Bonnaterre.) True.

Humpback whale; Humpback.

Balena nodosa Bonn., Tabl. encycl. et méthod. d. trois règnes de la nat., cetologie, 1789, p. 5. "NOUVELLE ANGLETERRE."

Megaptera boops (Fabricius). Van Beneden & Gervais, Ostéogr. des Cétacés, 1880, p. 120–129, pls. x, xi, fig. 1–8.

Megaptera versabilis Cope. Scammon, Marine mammals, 1874, p. 38–48, figs., pl. 7, fig. 1, pl. 8–9.

Marine; migratory.
ME.
N. H.
MASS.

4. BALAENOPTERA ACUTO-ROSTRATA Lacépède.

Little piked whale; Piked whale; Pike-headed whale.

Balaenoptera acuto-rostrata Lac., Hist. nat. des Cétacées, (an 12) 1803–4, vol. 1, p. 197–207, pl. 8. "AUX ENVIRONS DE LA RADE DE CHERBOURG."

Balaenoptera rostrata Fabricius. Sars, Videnskabs. selsk. forhandlinger, Christiania, 1878, p. 15, pl. 1.

Balaenoptera rostrata Fabr. Carte & Macalister, Phil. trans. roy. soc. London, 1868, p. 201–261, pl. 4–7.

Marine.
MASS.

5. BALAENOPTERA PHYSALUS (Linné.) True.

Common finback whale; Finback.

Balaena physalus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 75. "IN OCEANO EUROPAEO."

Balaenoptera musculus Auct. Dwight, Mem. Boston soc. nat. hist., 1872, vol. 2, p. 203–230, figs., pl. 6–7.

CETE MYSTACOCETI.

BALAENIDAE.

Marine, sometimes common off shore.
ME.
N. H.
MASS. to CONN.

6. BALAENOPTERA MUSCULUS (Linné.) True.

Blue whale; Sulphur-bottom.

Balaena musculus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 76. "IN MARI SCOTICO."

Balaenoptera sibbaldii Gray. Sars, Videnskabs. selsk. forhandlinger, Christiania, 1878, p. 18, pl. 3–4.

Marine.
ME.— Off shore.
MASS.— Off shore.

ODONTOCETI.

PHYSETERIDAE.

7. PHYSETER MACROCEPHALUS Linné.

Sperm whale; Cachalot.

Physeter macrocephalus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 76. "IN OCEANO EUROPAEO."

Physeter macrocephalus Linné. Scammon, Marine mammals, 1874, p. 74–84, pl. 14–15.

Physeter macrocephalus Linné. Flower, Trans. zool. soc. London, 1869, vol. 6, p. 309–372, pl. 55–61.

Marine; formerly common off shore.
ME.— Casco Bay.
MASS.— Nantucket; New Bedford.
R. I.
CONN.— Stonington.

PHYSETERIDAE.

8. HYPEROODON AMPULLATUM (Forster.) Rhoads.

Bottle-nose whale; Pug-head whale; Sperm-whale porpoise.

Balaena ampullata Forster, Kalm's Travels North Amer., 1770, vol. 1, p. 18 (ex Pennant, "NEAR MALDON," England).

Hyperoodon rostratus Müller. Elliot, Field Columb. mus., zool. ser., 1901, vol. 2, p. 16, pl. 4.

Hyperoodon rostratum (Chemnitz). Wesmael, Nouv. mém. acad. roy. Bruxelles, 1841, vol. 13, 13 pp., 2 pls.

Pelagic.

MASS.— North Dennis.

R. I.— Tiverton Stone Bridge.

CONN.— Stonington.

9. MESOPLODON BIDENS (Sowerby.) Flower.

Sowerby's whale; Two-toothed whale; Cowfish.

Physeter bidens Sow., British miscellany, 1806, p. 1. "NEAR BRODIE-HOUSE, ELGINSHIRE," England.

Mesoplodon bidens (Sow.). Flower, Trans. zool. soc. London, 1879, vol. 10, p. 415, f.

Delphinorhynchus micropterus G. Cuvier. Dumortier, Nouv. mém. acad. roy. Bruxelles, 1839, vol. 12, 13 pp., 3 pls.

Pelagic.

MASS. — Annisquam; Nantucket.

DELPHINIDAE.

10. DELPHINAPTERUS LEUCAS (Pallas.) Gerard.

White whale; Whitefish.

Delphinus leucas Pallas, Reise in Russischen Reichs, 1776, vol. 3, p. 85, pl. 4. "IM OBISCHEN MEERBUSEN," West Siberia.

CETI. ODONTOCETI.

DELPHINIDAE.

Delphinapterus leucas (Pallas). True, Bull. 36, U. S. nat. mus., 1889, p. 116–149, 187–188, pl. 46, fig. 1–2.

Marine.

ME.—Black-point Harbor.

N. H.—Newcastle Harbor.

MASS.—Massachusetts Bay; Provincetown; Yarmouth.

R. I.

NOTE.—The Narwhal (*Monodon monoceros*) is recorded by Harlan (Fauna Americana, 1825, p. 292) as having been taken "near Boston." The specimen referred to was doubtless the one captured at Boston, England, in 1800.

11. ORCINUS ORCA (Linné.) Palmer.

Killer whale; Orca; White bellied killer.

Delphinus orca Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 77. "IN OCEANO EUROPAEO."

Orcinus orca Linné. True, Proc. U. S. nat. mus., 1904, vol. 27, p. 227–230, pl. 7–8.

Marine.

ME.—Eastport.

MASS.—Massachusetts Bay.

12. GLOBICEPHALA MELAS (Traill.) DeKay.

Blackfish; Pilot whale; Caaing whale; Social whale.

Delphinus melas Traill, Nicholson's journal, 1809, vol. 22, p. 81, pl. 3. "SCARPAY BAY, IN POMONA, ONE OF THE ORKNEYS."

Globicephalus melas (Traill). True, Bull. 36, U. S. nat. mus., 1889, p. 133–137, 183–184, pl. 40.

Marine; gregarious.

ME.

MASS.—Massachusetts Bay; Salem Harbor.

R. I.

CONN.—Fairfield Beach; Bridgeport.

DELPHINIDAE.

13. GRAMPUS GRISEUS (Cuvier.) Gray.

Grampus; Gray grampus; Cowfish.

Delphinus griseus Cuv., Ann. mus. d' hist. nat., Paris, 1812, vol. 19, p. 14, pl. 1, fig. 1. "BREST," France.

Grampus griseus (Cuv.). True, Bull. 36, U. S. nat. mus., 1889, p. 125–133, 182–183, pl. 39.

Marine.

MASS.— Cape Cod.

14. PHOCAENA PHOCAENA (Linné.) Jordan.

Common harbor porpoise; Puffing-pig; Snuffer; Porpoise.

Delphinus phocoena Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 77. "IN OCEANO EUROPAEO, & BALTHICO."

Phocaena communis Lesson. True, Bull. 36, U. S. nat. mus., 1889, p. 119–122, 179–180, pl. 35.

Marine and estuarine; social.

ME.

N. H.

MASS. to CONN.

15. LAGENORHYNCHUS ACUTUS (Gray.) Gray.

Striped dolphin; Eschricht's dolphin; Skunk porpoise.

Delphinus acutus Gray, Spicil. zool., 1828, p. 2. ——

Lagenorhynchus acutus Gray. True, Bull. 36, U. S. nat. mus., 1889, p. 85–87, 169, pl. 23.

Marine.

MASS.— Cape Cod.

CETE. ODONTOCETI.

DELPHINIDAE.

16. DELPHINUS DELPHIS Linné.

Common dolphin; Ring-eyed porpoise; Sea porpoise.

Delphinus delphis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 77. "IN OCEANO EUROPAEO."

Delphinus delphis Linné. True, Bull. 36, U. S. nat. mus., 1889, p. 45–57, 160–161, pl. 11.

Delphinus delphis Linné. Flower, Trans. zool. soc. London, vol. 11, pt. 1, p. 1–5, pl. 1, fig. 1.

Pelagic.

MASS.

R. I.— Block Id.

CONN.— Long Id. Sound.

17. TURSIOPS TRUNCATUS (Montagu.) True.

Bottle-nose porpoise; Porpoise.

Delphinus truncatus Mont., Mem. Wernerian soc., 1821, vol. 3, p. 75, pl. 3. "ABOUT FIVE MILES UP THE RIVER DART," England.

Tursiops tursio (Fabricius). True, Bull. 36, U. S. nat. mus., 1889, p. 32–39, 158–159, pl. 8.

Delphinus tursio Fabr. Flower, Trans. zool. soc. London, vol. 11, pt. 1, p. 1–5, pl. 1, fig. 2.

Marine; migratory, in schools.

ME.

MASS.

R. I.

UNGULATA. ARTIODACTYLA.

CERVIDAE.

18. ODOCOILEUS VIRGINIANUS BOREALIS (Miller.) G. M. Allen.

Northern Virginia deer.

CERVIDAE.

Odocoileus americanus borealis Miller, Bull. 38, N. Y. state mus., 1900, vol. 8, p. 83. "BUCKSPORT, MAINE."

Odocoileus virginianus (Boddaert). Stone & Cram, Amer. animals, 1902, p. 34–39, 3 pls.

Woodlands and forests of Transition and Canadian zones.

ME. to CONN.

19. PARALCES AMERICANUS (Clinton.) Allen.

Moose.

Cervus americanus Clinton, Letters on nat. hist. and int. resources of N. Y., 1822, p. 193. "COUNTRY NORTH OF WHITESTOWN," N. Y.

Alces americanus Jardine. Elliot, Field Columb. mus., zool. ser., 1901, vol. 2, p. 38, pl. 14.

Alces americanus Jardine. Stone & Cram, Amer. animals, 1902, p. 43–47, 2 pls.

Forests of Canadian zone.

ME.— Northern counties.

N. H.— Coos County.

VT.— Formerly in northern counties.

20. RANGIFER CARIBOU (Gmelin.) Audubon and Bachman.

Woodland caribou.

Cervus tarandus caribou Gmel., Syst. nat., 1788, vol. 1, p. 177. "IN ALPIBUS AMERICAE, ..."

Rangifer caribou (Gmel.). Elliot, Field Columb. mus., zool. ser., 1901, vol. 2, p. 35–36, pl. 13.

Rangifer caribou (Gmel.). Stone & Cram, Amer. animals, 1902, p. 47–51, 1 pl.

Forests and barrens of Hudsonian zone.

ME.— South to Grafton.

N. H.— Connecticut Lakes.

VT.— Formerly in northern portion.

21. SCIURUS CAROLINENSIS LEUCOTIS (Gapper.) Allen.

Northern gray squirrel.

Sciurus leucotis Gapper. Zool. journ., 1830, vol. 5, p. 206, pl. 11. "BETWEEN YORK AND LAKE SIMCOE," Ontario.

Sciurus carolinensis leucotis (Gapper). Bangs, Proc. biol. soc. Washington, 1896, vol. 10, p. 155–156, pl. 9, fig. 1.

Deciduous woodlands and groves of Transition and lower Canadian zones.

ME.—Southern counties.

N. H.—To the White Mountains, 1,500 ft.

VT. to CONN.

22. SCIURUS HUDSONICUS (Erxleben.) Allen.

Northern red squirrel; Northern chickaree.

Sciurus vulgaris ε. *hudsonicus* Erxl., Syst. regni anim., 1777, p. 416. "AD FRETUM HUDSONIS."

Sciurus hudsonicus (Erxl.). Allen, Bull. Amer. mus. nat. hist., 1898, vol. 10, p. 255–257.

Sciurus hudsonicus hudsonicus (Erxl.). Bangs, Proc. biol. soc. Washington, 1896, vol. 10, p. 159–160, pl. 10, fig. 2.

Evergreen forests of upper Canadian and Hudsonian zones.

ME.—Northern counties.

N. H.—Northern counties; not typical = "*S. h. gymnicus*."

VT.—Northern counties; not typical = "*S. h. gymnicus*."

23. SCIURUS HUDSONICUS LOQUAX Bangs.

Southern red squirrel; Southern chickaree.

Sciurus hudsonicus loquax Bangs, Proc. biol. soc. Washington, 1896, vol. 10, p. 161–162, pl. 10, fig. 1. "LIBERTY HILL, CONN."

Sciurus hudsonicus gymnicus Bangs. Stone & Cram, Amer. animals, 1902, p. 172–175, 2 pls.

Coniferous and mixed woods of transition and upper austral zones.

ME.— Southern counties, not typical.

N. H.—Southern counties.

VT.— Southern counties.

MASS. to CONN.

24. SCIURUS RUFIVENTER NEGLECTUS (Gray.) Allen.

Northern fox squirrel.

Macroxus neglectus Gray, Ann. mag. nat. hist., ser. 3, 1867, vol. 20, p. 425. "NORTH AMERICA?"

Sciurus ludovicianus vicinus Bangs, Proc. biol. soc. Washington, 1896, vol. 10, p. 150–153, pl. 8, fig. 3.

Sciurus cinereus Linné. Audubon & Bachman, Quadrupeds of North Amer., 1846, vol. 1, p. 145–150, pl. 17.

Deciduous forests of upper austral zone.

MASS.— Southern Connecticut valley; Saugus.

CONN.— Northford (Linsley).

NOTE.— "N. H."—Two in Peabody acad. sci., Salem.

25. TAMIAS STRIATUS LYSTERI (Richardson.) Merriam.

Lyster's chipmunk; Ground squirrel; Striped squirrel; Chipmunk.

Sciurus (*Tamias*) *lysteri* Rich., Fauna Boreali-Americana, 1829, vol. 1, p. 181, pl. 15. "PENETANGUISHENE," ONTARIO.

Tamias striatus lysteri (Rich.). Merriam, Amer. naturalist, 1886, vol. 20, p. 242.

Sciurus striatus Linné. DeKay, Nat. hist. New York, 1842, pt. 1, p. 62–64, pl. 16, fig. 1.

Open woodlands and among rocks. Lives in burrows.

ME. to CONN.

26. ARCTOMYS MONAX (Linné.) Gmelin.

Woodchuck; Ground hog.

Mus monax Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 60. "IN AMERICA SEPTENTRIONALI."

Arctomys monax (Linné). Baird, Pacific Railway rept., 1857, vol. 8, p. 339–343, pl. 49, fig. 1a–1e.

Arctomys monax (Linné). Stone & Cram, Amer. animals, 1902, p. 151–159, 2 pls.

Fields and open woodlands.

ME. to CONN.

27. SCIUROPTERUS SABRINUS MACROTIS Mearns.

Canadian flying squirrel.

Sciuropterus sabrinus macrotis Mearns, Proc. U. S. nat. mus., 1898, vol. 21, p. 353–354, figs. 1, 2b, 3b. "HUNTER MOUNTAIN (CATSKILLS), GREENE COUNTY, NEW YORK."

Forests of Canadian zone; nocturnal.

ME. to VT.

MASS.—Hudson; Lynn; Middleboro'.

28. SCIUROPTERUS VOLANS (Linné.) Jordan.

Southern flying squirrel.

Mus volans Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 63. "IN VIRGINIA, ..."

Sciuropterus volans volans (Linné). Bangs, Proc. biol. soc. Washington, 1896, vol. 10, p. 164–166, fig. 30–31, pl. 10, fig. 5.

Sciuropterus volans (Linné). Stone & Cram, Amer. animals, 1902, p. 176–177, 1 pl.

GLIRES SIMPLICIDENTATA.

SCIURIDAE.

Open woodlands of Transition zone; nocturnal.
Me. — Eastport; Norway; Calais; Waterville.
N. H. — Hancock; Webster; Milan.
Vt. — Lowlands.
Mass. to Conn.

CASTORIDAE.

[illegible] Castor canadensis Kuhl.

American beaver: Beaver.

Castor canadensis Kuhl. Beiträge z. zool., 1820, p. 64. "Ad fluvium Hudsonis."

Castor canadensis Kuhl. Elliot, Field Columb. mus., zool. ser., 1901, vol. 2, p. 110, fig. 27.

Castor canadensis Kuhl. Stone & Cram, Amer. animals, 1902, p. 145–150, 2 pls.

Streams and lakes in forests.
Me. — Northern counties.
N. H. — Northern Coos County.
Vt. to Conn. — Extirpated.

MURIDAE.

[illegible] Mus musculus Linné.

House mouse.

Mus musculus Linné. Syst. nat., ed. 10, 1758, vol. 1, p. 62. "In pomariis" of Sweden.

Mus musculus Linné. Baird, Pacific Railway rept., 1857, vol. 8, p. 443–444.

Mus musculus Linné. Stone & Cram, Amer. animals, 1902, p. 138–142, fig. on pl. facing p. 142.

In buildings, sometimes in fields. Introduced.
Me. to Conn.

31. MUS NORVEGICUS Erxleben.

Norway rat; Brown rat; Wharf rat.

Mus norvegicus Erxl., Syst. regni anim., 1777, p. 361. "In urbe Europa."

Mus decumanus Pallas. DeKay, Nat. Hist. New York, 1842, pt. 1, p. 79–80.

Mus norvegicus Erxl. Stone & Cram, Amer. animals, 1902, p. 142–144, fig. on pl. facing p. 142.

Barns and neighborhood of wharves, houses, and freight yards. Introduced.

ME. to CONN.

32. MUS RATTUS Linné.

Black rat.

Mus rattus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 62. "In tectis Europae."

Mus rattus Linné. Elliot, Field Columb. mus., zool. ser., 1901, vol. 2, p. 117, fig. 28.

Mus rattus Linné. Audubon & Bachman, Quadrupeds of North Amer., 1840, vol. 1, p. 189–194, pl. 28.

About houses and barns in the country. Introduced.

ME. to CONN.

33. PEROMYSCUS CANADENSIS (Miller) Rhoads.

Canadian white-footed mouse.

Sitomys canadensis canadensis Miller, Proc. biol. soc. Washington, 1896, vol. 8, p. 66–67. "Paterson, Madison County, N. Y."

Cool, damp woods of Canadian zone.

ME. to VT.

MASS.— Mt. Graylock.

MURIDAE.

34. PEROMYSCUS LEUCOPUS NOVEBORACENSIS (Fischer.) Miller.

Eastern white-footed mouse; New York deermouse; Deermouse; Woodmouse.

Mus sylvaticus noveboracensis Fisch., Synopsis mammalium, 1829, p. 318–319. "IN NOVO EBORACO."

Peromyscus leucopus noveboracensis (Fisch.). Mearns, Proc. biol. soc. Washington, 1901, vol. 14, p. 154.

Peromyscus americanus noveboracensis (Fisch.). Elliot, Field Columb. mus., zool. ser., 1901, vol. 2, p. 125 (fig. 30 of "*P. americanus*").

Woodlands of transition zone.

ME.— Southern counties.

N. H.— Below 3000 feet.

VT. to CONN.

35. NEOTOMA PENNSYLVANICA Stone.

Alleghany wood rat; Cave rat.

Neotoma pennsylvanica Stone, Proc. acad. nat. sci. Philadelphia, 1893, p. 16. "SOUTH MOUNTAIN, CUMBERLAND COUNTY, PENNA."

Neotoma pennsylvanica Stone. Rhoads, Mammals of Penna. & N. J., 1903, p. 85–92, pl. 4.

In stony places and in caves; upper austral zone.

? MASS.— (Gibbs.)

CONN.— Liberty Hill; ? Bridgeport (Linsley).

36. EVOTOMYS GAPPERI OCHRACEUS Miller.

Eastern red-backed mouse; Wood vole.

Evotomys gapperi ochraceus Miller, Proc. Boston soc. nat. hist., 1894, vol. 26, p. 193–196, pl. 3, fig. 1. "MOUNT WASHINGTON, N. H., ... ALPINE GARDEN."

Evotomys gapperi ochraceus Miller. Bailey, Proc. biol. soc. Washington, 1897, vol. 11, pp. 117, 124.

Cool, damp woods of Canadian zone.
ME. to VT.— Abundant.
MASS.— Highlands and boreal swamps.
R. I.— Boreal swamps.
CONN.— Liberty Hill.

37. MICROTUS PENNSYLVANICUS (Ord.) Rhoads.

Meadow mouse; Meadow vole; Field mouse.

Mus pennsylvanica Ord, Guthrie's geography, 2d Amer. ed., 1815, vol. 2, p. 292 (ex Wilson, Amer. ornith., 1812, vol. 6, p. 59, pl. 50, fig. 3. "PHILADELPHIA," Penna.)

Microtus pennsylvanicus (Ord). Bailey, North Amer. fauna, 1900, no. 17, p. 16–18, fig. 1, pl. 1, pl. 2, fig. 1; pl. 3, fig. 1.

Grassy fields and marshes; to a less extent in the woods.
ME. to CONN.

38. MICROTUS PENNSYLVANICUS SHATTUCKI Howe.

Shattuck meadow mouse.

Microtus pennsilvanicus [*sic*] *shattucki* Howe, Proc. Portland soc. nat. hist., 1901, vol. 2, p. 201–202, pl. 5. "TUMBLE DOWN DICK ISLAND, NEAR LONG ISLAND, PENOBSCOT BAY, MAINE."

Islands of Penobscot Bay, Me.
ME.— Tumble Down Dick Island; Long Island.

39. MICROTUS BREWERI (Baird.) Miller.

Brewer's meadow mouse; Beach mouse; Gray mouse.

Arvicola breweri Baird, Pacific Railway rept., 1857, vol. 8, p. 525–526. "ISLAND OF MUSKEEGET, ON THE EASTERN COAST OF MASSACHUSETTS."

Microtus breweri (Baird). Miller, Proc. Boston soc. nat. hist., 1896, vol. 27, p. 83–87, pl. 1, figs. 1, 1a.

Insular.
MASS.— Muskeeget Island.

40. MICROTUS CHROTORRHINUS (Miller.) Bangs.

Rock vole; Rufous nosed meadow mouse.

Arvicola chrotorrhinus Miller, Proc. Boston soc. nat. hist., 1894, vol. 26, p. 190, pl. 3, fig. 3–4; pl. 4, figs. 2a, 2b. "MOUNT WASHINGTON, N. H., ... ABOUT 5,300 FT."
Microtus chrotorrhinus (Miller). Bailey, North Amer. fauna, 1900, no. 17, p. 58, pl. 4, fig. 5; pl. 5, fig. 5.

Cool wet woods among rocks; Canadian and Hudsonian zones.
N. H.— Mt. Washington, 5,300 ft.; Mt. Adams, 4,400 ft.; Carter Notch, 3,360 ft.; Profile Lake, 2,000 ft.

41. MICROTUS PINETORUM SCALOPSOIDES (Audubon & Bachman.) Batchelder.

Northern pine mouse; Mole mouse.

Arvicola scalopsoides Aud. & Bach., Proc. acad. nat. sci. Philadelphia, 1841, vol. 1, p. 97. "LONG ISLAND, ... NEW YORK."
Microtus pinetorum scalopsoides (Aud. & Bach.). Bailey, North Amer. fauna, 1900, no. 17, p. 64.
Microtus pinetorum scalopsoides (Aud. & Bach.). Rhoads, Mammals of Penna. & N. J., 1903, p. 101–104, fig. on pl. 5.

Dry, sandy fields and woods; upper austral zone.
MASS.— Springfield.
R. I.
CONN.— East Hartford.

42. FIBER ZIBETHICUS (Linné.) Cuvier.

Muskrat; Musquash.

Castor zibethicus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 79. "CANADA."

Fiber zibethicus (Linné). Elliot, Field Columb. mus., zool. ser., 1901, vol. 2, p. 212–213, fig. 49.

Fiber zibethicus Linné. Stone & Cram, Amer. animals, 1902, p. 121–126, 1 pl.

Along streams and lakes, and in marshes.

ME. to CONN.

43. SYNAPTOMYS COOPERI Baird.

Cooper's lemming mouse; Bog lemming.

Synaptomys cooperi Baird, Pacific Railway rept., 1857, vol. 8, p. 558. "PROBABLY FROM THE NEW ENGLAND STATES, OR NEW YORK."

Synaptomys cooperi Baird. Merriam, Proc. biol. soc. Washington, 1896, vol. 10, p. 58, fig. 2.

Synaptomys cooperi Baird. Stone & Cram, Amer. animals, 1902, p. 107–108, fig. 6 on pl. facing p. 110.

Sphagnum bogs and swampy woods.

ME.— Mt. Katahdin.

MASS.— Plymouth; Wareham.

44. SYNAPTOMYS FATUUS Bangs.

Northern lemming mouse.

Synaptomys fatuus Bangs, Proc. biol. soc. Washington, 1896, vol. 10, p. 47–48. "LAKE EDWARD, QUEBEC."

Sphagnum bogs and damp forests of Hudsonian zone.

ME.— Eagle Lake, Aroostook County; Mt. Katahdin (intermediate?).

N. H.— Mt. Moosilauke (4,800 ft.).

MURIDAE.

45. SYNAPTOMYS SPHAGNICOLA Preble.

White Mountain lemming mouse.

Synaptomys (*Mictomys*) *sphagnicola* Preble, Proc. biol. soc. Washington, 1899, vol. 13, p. 43–45, fig. 3a. "FABYANS, NEW HAMPSHIRE."

Sphagnum bogs, and damp forests of Hudsonian zone.
ME.— Mt. Katahdin (4,500 ft.).
N. H.— Fabyans.

ZAPODIDAE.

46. ZAPUS HUDSONIUS (Zimmermann.) Coues.

Hudson Bay jumping mouse.

Dipus hudsonius Zimm., Geographische geschichte, 1780, vol. 2, p. 358. "HUDSONSBAY."

Zapus hudsonius (Zimm.). Preble, North Amer. fauna, 1899, no. 15, p. 15–17, fig. 1, pl. 1, figs. 3, 3a.

Zapus hudsonius (Zimm.). Stone & Cram, Amer. animals, 1902, p. 102–104, 1 fig. on pl. facing p. 102.

Grassy meadows and swamps.
ME. to CONN.

47. NAPAEOZAPUS INSIGNIS (Miller.) Miller.

Woodland jumping mouse.

Zapus insignis Miller, Amer. naturalist, 1891, vol. 25, p. 742. "RESTIGOUCHE, N. B."

Zapus (*Napaeozapus*) *insignis* Miller. Preble, North Amer. fauna, 1899, no. 15, p. 33–35, fig. 2, pl. 1, figs. 1, 1a.

Zapus insignis Miller. Stone & Cram, Amer. animals, 1902, p. 104–105, fig. 4 on pl. facing p. 110.

By cool streams in damp woods of Canadian zone.
ME. to VT.
MASS.— Mt. Graylock.

GLIRES. SIMPLICIDENTATA.

ERETHIZONTIDAE.

48. ERETHIZON DORSATUM (Linné.) F. Cuvier.

Canada porcupine; Hedgehog; Quill-pig.

Hystrix dorsata Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 57. "IN CANADA."

Erethizon dorsatus (Linné). Elliot, Field Columb. mus., zool. ser., 1901, vol. 2, p. 264–265, pl. 24.

Erethizon dorsatus (Linné). Stone & Cram, Amer. animals, 1902, p. 94–96, 2 pls.

Mixed and coniferous woods, among rocks.

ME. to MASS.

DUPLICIDENTATA.

LEPORIDAE.

49. LEPUS AMERICANUS VIRGINIANUS (Harlan.) Allen.

Eastern varying hare; White rabbit.

Lepus virginianus Harlan, Fauna Americana, 1825, p. 196–198. "BLUE MOUNTAINS, ... PENNSYLVANIA."

Lepus americanus virginianus (Harlan). Bangs, Proc. biol. soc. Washington, 1898, vol. 12, p. 79–81.

Lepus americanus virginianus (Harlan). Stone & Cram, Amer. animals, 1902, p. 78–86, 1 pl.

Cool, damp woods of Canadian zone.

ME. to VT.

MASS.— Locally in eastern part.

R. I.— Local.

CONN.— Local.

50. LEPUS FLORIDANUS TRANSITIONALIS (Bangs.) Allen.

Northern cottontail; Gray rabbit; Coney.

Lepus sylvaticus transitionalis Bangs, Proc. Boston soc. nat. hist., 1895, vol. 26, p. 405. "LIBERTY HILL, CONN."

GLIRES. DUPLICIDENTATA.

LEPORIDAE.

Lepus nanus Schreber. DeKay, Nat. hist. New York, 1842, pt. 1, p. 93–95, pl. 27, fig. 1.

In bushy places; transition zone.
N. H.— North to Webster.
VT.— Windsor; Connecticut valley.
MASS.— Lower portions.
R. I.
CONN.

FERAE. PINNIPEDIA.

PHOCIDAE.

51. PHOCA GROENLANDICA Erxleben.

Harp seal; Saddle-back.

Phoca groenlandica Erxl., Syst. regni anim., 1777, p. 588. "IN GROENLANDIA ET NEWFOUNDLAND."

Phoca groenlandica Fabricius. Allen, History of North Amer. Pinnipeds, 1880, p. 630–654, fig. 50.

Phoca groenlandica Fabricius. Elliot, Field Columb. mus., zool. ser., 1901, vol. 2, p. 364–365, pl. 49, (1 fig.).

Marine; straggler from the north.
MASS.— Nahant.
CONN.— Stonington (?).

52. PHOCA VITULINA Linné.

Harbor seal; Sea-dog.

Phoca vitulina Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 38. "IN MARI EUROPAEO."

Phoca vitulina Linné. Allen, History of North Amer. Pinnipeds, 1880, p. 559–597, fig. 43–48.

Phoca vitulina (Linné). Stone & Cram, Amer. animals, 1902, p. 215–217, fig. on pl. facing p. 216.

FERAE PINNIPEDIA.

PHOCIDAE.

Marine and estuarine; breeds on rocks off shore.
ME.
N. H.
VT.— Lake Champlain.
MASS. to CONN.

53. CYSTOPHORA CRISTATA (Erxleben.) Nilsson.

Hooded seal; Crested seal.

Phoca cristata Erxleben, Syst. regni anim., 1777, p. 590. "IN GROENLANDIA AUSTRALIORI ET NEWFOUNDLAND."
Cystophora cristata (Erxleben). Allen, History of North Amer. Pinnipeds, 1880, p. 724–742, fig. 52–56.

Marine; a straggler from the north.
ME.
MASS.— Newburyport; Massachusetts coast.
R. I.— Providence River, below Providence.

FISSIPEDIA.

FELIDAE.

54. FELIS COUGUAR Kerr.

Adirondack cougar; Puma; Panther.

Felis couguar Kerr, Animal kingdom, 1792, p. 151. "MOUNTAINS OF PENSYLVANIA, VIRGINIA, CAROLINA, AND GEORGIA."
Felis couguar Kerr. Merriam, Proc. Washington acad. sci., 1901, vol. 3, p. 582–583.
Felis concolor Linné. DeKay, Nat. hist. New York, 1842, pt. 1, p. 47–49, pl. 9.

Forests and mountains; now almost extirpated.
ME.
N. H.— White Mountains (about 1885).

VT.— Green Mountains (1894); Barnard (1881); Weathersfield (1867); Bennington (1850).

MASS.— Extirpated.

R. I.— Extirpated.

55. LYNX CANADENSIS (Kerr.) Rafinesque.

Canada lynx; Lucivee.

Felis lynx canadensis Kerr, Anim. kingdom, 1792, p. 157. "CANADA."

Felis canadensis Desmarest. Elliot, Monograph of the Felidae, 1880, pt. 6, 2 pp. text, 1 pl.

Lynx canadensis Kerr. Stone & Cram, Amer. animals, 1902, p. 286–288, 1 pl.

Evergreen forests of the north.

ME.

N. H.— Rare.

VT.— Rare.

MASS.— Practically extirpated. Ware (1866).

56. LYNX RUFFUS (Güldenstädt.) Rafinesque.

Bay lynx; Bobcat; Wildcat.

Felis ruffa Güld., Nov. comm. acad. scient. imp. Petrop., 1776, vol. 20, p. 484. (Ex Pennant, "INNER PARTS OF THE PROVINCE OF NEW-YORK.")

Lynx ruffus (Güld.). Bangs, Proc. biol. soc. Washington, 1897, vol. 11, pl. 2, fig. 3.

Lyncus rufus (Temminck.) De Kay, Nat. hist. New York, 1842, pt. 1, p. 51–53, pl. 10, fig. 1.

Deep woods; dens among rocks.

ME. to R. I.

CONN.— East Hartford.

CANIDAE.

57. UROCYON CINEREOARGENTEUS BOREALIS Merriam.

Northern gray fox.

Urocyon cinereoargenteus borealis Merriam, Proc. biol. soc. Washington, 1903, vol. 16, p. 74. "MARLBORO, 7 MILES FROM MONADNOCK, NEW HAMPSHIRE."

Urocyon cinereoargenteus (Schreber). Stone & Cram, Amer. animals, 1902, p. 275–377, 1 pl. (southern form).

Open woodlands of upper austral zone.

N. H.— Marlboro.

MASS.— Leominster.

CONN.

58. VULPES FULVUS (Desmarest.) De Kay.

Red fox; Cross fox; Black fox.

Canis fulvus Desm., Mammalogie, 1820, vol. 1, p. 203. "L'ETAT DE VIRGINIE."

Vulpes pennsylvanica (Boddaert). Elliot, Field Columb. mus., zool. ser., 1901, vol. 2, p. 304, pl. 30.

Vulpes fulvus (Desm.). Stone & Cram, Amer. animals, 1902, p. 264–272, 2 pls.

Woodlands; in burrows.

ME. to CONN.

59. CANIS OCCIDENTALIS (Richardson.) Baird.

Gray wolf; Timber wolf.

Canis lupus occidentalis Rich., Fauna Boreali-Amer., 1829, vol. 1, p. 60. "NORTHERN DISTRICTS" of North America.

Lupus occidentalis (Rich.). De Kay, Nat. hist. New York, 1842, pt. 1, p. 42–43, pl. 27, fig. 2.

Forests.

ME.— Practically extirpated.

N. H.— White Mountains (about 1887).

CANIDAE.

VT.— Extirpated in past century.
MASS.— Extirpated in past century.
CONN.— Extirpated. Bridgeport (1840); Newtown (1832).

MUSTELIDAE.

60. LUTRA CANADENSIS (Schreber.) Sabine.

Otter.

Mustela lutra canadensis Schr., Säugthiere, 1776, pl. 126 B. "NORDAMERICA."

Lutra hudsonica Lacépède. Rhoads, Trans. Amer. philos. soc., n. s., 1898, vol. 19, p. 424–427, pl. 24, fig. 1–2.

Lutra canadensis Schr. Stone & Cram, Amer. animals, 1902, p. 219–223, 1 pl.

Streams and lakes, and along the seashore.
ME. to CONN.

61. MEPHITIS PUTIDA (G. Cuvier.) Allen.

Eastern skunk.

Mustela putida G. Cuv., Tabl. élém. de l'hist. nat. des anim., 1798, p. 116. "DE L'AMÉRIQUE SEPTENTRIONALE."

Chincha putida (Boitard). Howell, North Amer. fauna, 1901, no. 20, p. 25–27, pl. 1, fig. 1; pl. 5, fig. 3–4.

Mephitis putida (Cuvier). Stone & Cram, Amer. animals, 1902, p. 224–229, 1 pl.

Open woodlands and rural districts.
ME. to CONN.

62. GULO LUSCUS (Linné.) Sabine.

Wolverine; Indian devil.

Ursus luscus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 47. "AD SINUM HUDSONIS."

MUSTELIDAE.

Gulo luscus (Linné). Baird, Pacific Railway rept., vol. 8, 1857, p. 181–183.

Gulo luscus Linné. Stone & Cram, Amer. animals, 1902, p. 245–247, 1 pl.

Heavy forests; probably extirpated in New England.

ME.— Norway (about 1865).

N. H. to MASS.— Extirpated.

63. PUTORIUS VISON (Schreber.) Gapper.

Mink; Little black mink.

Mustela vison Schr., Säugthiere, 1778, vol. 3, p. 463, pl. 127 B. "IN CANADA, ..."

Putorius vison (Schr.). Bangs, Proc. Boston soc. nat. hist., 1896, vol. 27, p. 3–4, pl. 2, fig. 1.

Putorius vison (Schr.). Stone & Cram, Amer. animals, 1902, p. 231–235, 1 fig. on pl. facing p. 234.

Along streams.

ME. to MASS.

64. PUTORIUS VISON LUTREOCEPHALUS (Harlan.) Bangs.

Large brown mink.

Mustela lutreocephala Harlan, Fauna Americana, 1825, p. 63. "MARYLAND."

Putorius vison lutreocephalus (Harlan). Bangs, Proc. Boston soc. nat. hist., 1896, vol. 27, p. 4, pl. 1, fig. 1; pl. 2, fig. 2.

On the seaboard, and rocky islands off shore.

ME.— Flatt Island, off Jonesport.

MASS. to CONN.— Along the coast.

65. PUTORIUS CICOGNANII (Bonaparte.) Richardson.

Little brown weasel.

MUSTELIDAE.

Mustela cicognanii Bon., Iconogr. fauna Ital., 1838, vol. 1, fasc. 22, p. 4. "AMERICA SETTENTRIONALE."

Putorius cicognani Bon. Merriam, North Amer. fauna, 1896, no. 11, p. 10–11, fig. 2–3, pl. 2, figs. 3, 3a, 4, 4a.

Boreal forests; sometimes in open rocky places.

ME. to CONN.

66. PUTORIUS NOVEBORACENSIS Emmons.

New York weasel; Large brown weasel.

Putorius noveboracensis DeKay (nom. nud.) Emmons, Report quadrupeds Mass., 1840, p. 45. "MIDDLE AND NORTHERN STATES."

Putorius noveboracensis DeKay. Merriam, North Amer. fauna, 1896, no. 11, p. 16–18, fig. 4–6, pl. 4, figs. 1, 1a, 2, 2a; pl. 5, figs. 3, 3a.

Putorius noveboracensis (Emmons). Stone & Cram, Amer. animals, 1902, p. 235–239, 1 fig. on pl. facing p. 234.

In woods; sometimes near houses.

ME.— Southern half. Upton.

N. H.— White Mountains, southward.

VT. to CONN.

67. PUTORIUS OCCISOR Bangs.

Long-tailed weasel.

Putorius occisor Bangs, Proc. New England zoöl. club, 1899, vol. 1, p. 54. "BUCKSPORT, MAINE."

Forests; northern New England.

ME.— Bucksport; Moosehead Lake.

68. MUSTELA AMERICANA Turton.

Pine marten; Sable.

MUSTELIDAE.

Mustela americanus Turt., Linnaeus System of nature, 1806, vol. 1, p. 60. "North America."

Mustela americana Turt. Elliot, Field Columb. mus., zool. ser., 1901, vol. 2, p. 334–335, fig. 66.

Mustela americana Turt. Stone & Cram, Amer. animals, 1902, p. 242–245, 1 pl.

Evergreen and beech forests; now confined to northern New England.

Me.

N. H.— White Mountains, northward.

Vt.

Mass.— Formerly in Berkshire County.

69. Mustela pennanti Erxleben.

Pennant's marten; Fisher; Black cat.

Mustela pennanti Erx., Syst. regni anim., 1777, vol. 1, p. 470. "In America boreali."

Mustela canadensis Gmelin. DeKay, Nat. hist. New York, 1842, pt. 1, p. 31–32, pl. 13, fig. 1.

Mustela canadensis Schreber. Audubon & Bachman, Quadrupeds North Amer., 1846, vol. 1, p. 307–315, pl. 41.

Forests of northern New England.

Me.

N. H.— White Mountains, northward.

Vt.

Mass.— Formerly in Berkshire County (1830).

PROCYONIDAE.

70. Procyon lotor (Linné.) Storr.

Raccoon; Coon.

FERAE. FISSIPEDIA.

PROCYONIDAE.

Ursus lotor Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 48. "IN AMERICAE MARITIMIS."

Procyon lotor (Linné). Elliot, Field Columb. mus., zool. ser., 1901, vol. 2, p. 317, fig. 62.

Procyon lotor (Linné). Stone & Cram, Amer. animals, 1902, p. 247–254, 1 pl.

Deciduous and mixed woods; in hollow trees.

ME. to CONN.

URSIDAE.

71. URSUS AMERICANUS Pallas.

Black bear.

Ursus americanus Pallas, Spicilegia zoologica, 1780, fasc. 14, p. 5. "AMERICAM."

Ursus americanus Pallas. Elliot, Field Columb. mus., zool. ser., 1901, vol. 2, p. 313–314, pl. 34.

Ursus americanus Pallas. Audubon & Bachman, Quadrupeds of North Amer., 1854, vol. 3, p. 187–197, pls. 141, 127.

Dense and secluded forests of northern New England.

ME.

N. H.— White Mountains, northward.

VT.— Northern counties.

MASS.— Practically extirpated. Worthington (1885); Savoy (1885); North Adams (1885); Agawaum (1886).

CONN.— Extirpated (Linsley).

INSECTIVORA. INSECTIVORA VERA.

SORICIDAE.

72. SOREX PERSONATUS I. Geoffroy.

Common long-tailed shrew; Masked shrew.

SORICIDAE.

Sorex personatus I. Geoffroy, Mém. mus. d'hist. nat., Paris, 1827, vol. 15, p. 122. "Les Etats-Unis."

Sorex personatus I. Geoffroy. Miller, North Amer. fauna, 1895, no. 10, p. 53–56, pl. 4, figs. 1, 5–8; pl. 6, fig. 7–8.

Sorex personatus Geoffroy. Stone & Cram, Amer. animals, 1902, p. 184–186, fig. 8 on pl. facing p. 110.

Cool, damp woods and swamps.

Me. to Vt.

Mass.— Locally in cedar swamps and cool bogs. North Truro; Nantucket.

R. I.— Local.

Conn.— Local.

73. Sorex fumeus Miller.

Smoky shrew.

Sorex fumeus Miller, North Amer. fauna, 1895, no. 10, p. 50–52, pl. 5, fig. 5; pl. 6, figs. 5, 5a. "Peterboro, N. Y."

Cool woodlands among mossy rocks and logs.

N. H.— White Mountains.

74. Sorex hoyi Baird.

Least shrew; Hoy's shrew.

Sorex hoyi Baird, Pacific railway rept., 1857, vol. 8, p. 32–33, figs. on pl. 28; *Sorex thompsoni* Baird, ibid., p. 34–35, figs. on pl. 27. "Racine, Wisconsin."

Sorex hoyi Baird. Merriam, North Amer. fauna, 1895, no. 10, p. 89–90, pl. 9, fig. 5–5c; pl. 12, fig. 4–5.

Dry clearings under logs; a high northern species.

Me. — Norway; Waterville.

Vt. — Burlington (= "*S. thompsoni*").

SORICIDAE.

75. SOREX ALBIBARBIS (Cope.) Merriam.

Water shrew; White lipped shrew.

Neosorex albibarbis Cope, Proc. acad. nat. sci. Philadelphia, 1862, p. 188. "PROFILE LAKE, IN THE FRANCONIA MOUNTAINS, NEW HAMPSHIRE."

Sorex albibarbis (Cope). Miller, North Amer. fauna, 1895, no. 10, p. 46–47, pl. 5, fig. 2; pl. 6, fig. 2.

Sorex palustris albibarbis (Cope). Rhoads, Mammals Penn. & N. J., 1903, p. 191–192, fig. on pl. 7.

By cold forest streams and edges of lakes, in Canadian zone.
ME. — Mt. Katahdin; Lincoln.
N. H. — White Mountains: Profile Lake; Bartlett.
MASS. — Warwick.

76. BLARINA BREVICAUDA TALPOIDES (Gapper.) Bangs.

Large blarina; Eastern short-tailed shrew; Eastern mole shrew.

Sorex talpoides Gapper, Zool. journal, 1830, vol. 5, p. 202, pl. 8. "BETWEEN YORK AND LAKE SIMCOE," Ontario.

Blarina brevicauda (Say). Merriam, North Amer. fauna, 1895, no. 10, p. 10–13, pl. 1, fig. 2–4; pl. 2, fig. 1–4.

Blarina brevicauda (Say). Stone & Cram, Amer. animals, 1902, p. 180–183, fig. 7 on pl. facing p. 110.

In woods and fields everywhere.
ME. to CONN.

77. BLARINA BREVICAUDA ALOGA Bangs.

Martha's Vineyard blarina.

Blarina brevicauda aloga Bangs, Proc. New England zoöl. club, 1902, vol. 3, p. 76–77. "WEST TISBURY, MARTHA'S VINEYARD, MASSACHUSETTS."

SORICIDAE.

Insular.
MASS. — Martha's Vineyard.

78. BLARINA BREVICAUDA COMPACTA Bangs.

Nantucket blarina.

Blarina brevicauda compacta Bangs, Proc. New England zoöl. club, 1902, vol. 3, p. 77–78. "NANTUCKET, MASSACHUSETTS."

Insular.
MASS.— Island of Nantucket.

TALPIDAE.

79. SCALOPS AQUATICUS (Linné.) F. Cuvier.

Eastern mole; Common mole.

Sorex aquaticus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 53. "IN AMERICA SEPTENTRIONALI."
Scalops aquaticus (Linné). True, Proc. U. S. nat. mus., 1896, vol. 19, p. 19–47, fig. 4–10, pl. 1, fig. 3; pl. 2, fig. 3; pl. 3, fig. 3.
Scalops aquaticus (Linné). Stone & Cram, Amer. animals, 1902, p. 188–189, fig. on pl. facing p. 188.

Open lands of upper austral zone; tunneling in loose soil.
MASS.— Springfield; Wareham.
CONN.

80. PARASCALOPS BREWERI (Bachman.) True.

Brewer's mole; Hairy-tailed mole.

Scalops breweri Bachman, Boston journ. nat. hist., 1842, vol. 4, p. 32. "MARTHA'S VINEYARD," Mass., (a probable error).
Parascalops breweri (Bachman). True, Proc. U. S. nat. mus., 1896, vol. 19, p. 68–77, fig. 19–26, pl. 4, fig. 1–3.

INSECTIVORA. INSECTIVORA VERA.

TALPIDAE.

Parascalops breweri (Bachman). Rhoads, Mammals Penn. & N. J., 1903, p. 204–206, fig. on pl. 8.

Open lands of Canadian and transition zones, tunneling in sandy or gravelly soil; sometimes in open woods.

ME.— Upton.

N. H.— White Mountains and elsewhere.

VT.

MASS.— Warwick; ? Martha's Vineyard.

81. CONDYLURA CRISTATA (Linné.) Desmarest.

Star-nosed mole; Black mole; Long-tailed mole; Swamp mole.

Sorex cristatus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 53. "IN PENSYLVANIA."

Condylura cristata (Linné). True, Proc. U. S. nat. mus., 1896, vol. 19, p. 78–98, fig. 27–38, pl. 4, fig. 4–6.

Condylura cristata (Linné). Stone & Cram, Amer. animals, 1902, p. 190–192, fig. on pl. facing p. 188.

Bottomlands and swamps; sometimes in woods by streams Lives in tunnels and runways.

ME. to CONN.

CHIROPTERA. MICROCHIROPTERA.

VESPERTILIONIDAE.

82. MYOTIS LUCIFUGUS (Le Conte.) Miller.

Little brown bat.

Vespertilio lucifugus Le Conte, McMurtrie's Cuvier, Animal kingd., 1831, vol. 1, p. 431, app. [Southern Georgia.]

Myotis lucifugus (Le Conte). Miller, North Amer. fauna, 1897, no. 13, p. 59–63, figs. 13c, 14b, 14b′.

Nocturnal, spending the day in caves or hollow trees.
ME. to CONN.

83. MYOTIS SUBULATUS (Say.) Miller.

Say's bat; Little brown bat.

Vespertilio subulatus Say, Long's Exped. to Rocky Mts., 1823, vol. 2, p. 65. "ABOUT EIGHTEEN MILES ABOVE THE CONFLUENCE OF THAT TRIBUTARY OF THE ARKANSA, CALLED IN PIKE'S MAPS 'THE FIRST FORK.'"

Myotis subulatus (Say). Miller, North Amer. fauna, 1897, no. 13, p. 75–76, figs. 13a, 15b, 15b′.

Vespertilio subulatus (Say). DeKay, Nat. hist. New York, 1842, pt. 1, p. 8–9, pl. 3, fig. 2.

Nocturnal, spending day in caves and hollow trees.
ME. to CONN.

84. LASIONYCTERIS NOCTIVAGANS (Le Conte.) Peters.

Silver-haired bat.

Vespertilio noctivagans Le Conte, McMurtrie's Cuvier, Animal kingd., 1831, vol. 1, p. 431, app. [North America.]

Lasionycteris noctivagans (Le Conte). Miller, North Amer. fauna, 1897, no. 13, p. 86–87, fig. 18–19.

Lasionycteris noctivagans (Le Conte). Stone & Cram, Amer. animals, 1902, p. 202–203, fig. 2 on pl. facing p. 198.

Nocturnal, spends day in caves; feeds over ponds in woods.
N. H. — White Mountains.
VT.
MASS. — Nantucket; North Truro; Middleboro.
R. I.

85. PIPISTRELLUS SUBFLAVUS OBSCURUS Miller.

Northern Georgia bat; Dusky bat.

Pipistrellus subflavus obscurus Miller, North Amer. fauna, 1897, no. 13, p. 93 (figs. 22b, 23b, of *P. subflavus*). "LAKE GEORGE, WARREN COUNTY, N. Y."

Nocturnal; spends day in buildings and hollow trees; upper austral zone.

ME.—(J. A. Allen.)

MASS.—Concord.

86. VESPERTILIO FUSCUS Beauvois.

Large brown bat; House bat.

Vespertila [*sic*] *fuscus* Beauv. Cat. Peale's mus., Philadelphia, 1796, p. 14. "PHILADELPHIA," Pa.

Vespertilio fuscus Beauv. Miller, North Amer. fauna, 1897 no. 13, p. 96–99, figs. 24b, 25b.

Vespertilio fuscus Beauv. Stone & Cram, Amer. animals, 1902, p. 200–201, fig. 3 on pl. facing p. 198.

Nocturnal; spends day in buildings, caves, or on trees; winters in New England.

ME. to CONN.

87. LASIURUS BOREALIS (Müller.) Miller.

Red bat; New York bat; Tree bat.

Vespertilio borealis Müller, Natursyst., suppl., 1776, p. 20. ["NORD-AMERICA."]

Lasiurus borealis (Müller). Miller, North Amer. fauna, 1897, no. 13, p. 105–108, figs. 27a, 28a.

Lasiurus borealis (Müller). Lyon, Proc. U. S. nat. mus., 1903, vol. 26, p. 425–426, pl. 17, fig. 1–2.

Nocturnal; in trees by day.

ME. to CONN.

VESPERTILIONIDAE.

88. LASIURUS CINEREUS (Beauvois.) H. Allen.

Hoary bat.

Vespertilio cinereus Beauv., Cat. Peale's mus., Philadelphia, 1796, p. 15. "PENNSYLVANIA."

Lasiurus cinereus (Beauv.). Miller, North Amer. fauna, 1897, no. 13, p. 112–115, fig. 31–32, pl. 3, fig. 4.

Vespertilio pruinosus Say. De Kay, Nat. hist. New York, 1842, pt. 1, p. 7–8, pl. 2, fig. 2.

Nocturnal; spends day in trees.

ME. to CONN.

Occasional Papers
OF THE
Boston Society of Natural History
VII.

FAUNA OF NEW ENGLAND.

8.

LIST OF THE PISCES.

By WILLIAM C. KENDALL.

BOSTON:
PRINTED FOR THE SOCIETY FROM THE
GURDON SALTONSTALL FUND.
April, 1908.

	M.	N. H.	V.	Mass.	R. I.	Conn.
Myxine glutinosa	—	—				
Petromyzon marinus	—	—		—	—	—
unicolor			—			
Ichthyomyzon concolor			—			
Chlamydoselachus anguineus	+					
Mustelus canis				—	—	—
Galeocerdo tigrinus						
Prionace glauca						
Carcharhinus obscurus				—	—	—
milberti						
limbatus						
Sphyrna zygaena				+	—	—
Alopias vulpes	—			+		
Carcharias littoralis	—			—		
Isurus dekayi	—			—	—	—
Lamna cornubica	—					
Carcharodon carcharias	—	•		—		
Cetorhinus maximus						
Squalus acanthias	—			+	—	
Centroscymnus coelolepis				—		
Centrosyllium fabricii						
Somniosus microcephalus	—			—		
Echinorhinus spinosus				—		
Squatina squatina						
Raja erinacea	—			—		
ocellata	—			—		
radiata	—			—		+
eglanteria				—		+
senta				—		
laevis	—			+		
Tetronarce occidentalis	—			+		—
Dasyatis centrura				—		
hastata				—		
Pteroplatea maclura				+	—	—
Myliobatis freminvillei				+		
Rhinoptera bonasus				—		
Acipenser sturio	—			+		—
rubicundus						
brevirostrum				—	+	
Lepisosteus osseus						
Amia calva			+			
Felichthys marinus				—	+	
Galeichthys felis				+	—	

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Ameiurus lacustris			—			
vulgaris			—			
nebulosus	+			+	—	—
Carpiodes thompsoni			+			
Catostomus catostomus	+	—	—			
commersonii	+		—	+		—
nigricans			—	—		
Erimyzon oblongus	—			+	—	—
Moxostoma aureolum			+			
Chrosomus erythrogaster	—	—				
Pimephales notatus			—			
anuli						
Semotilus bullaris	+	+	—	+		—
atromaculatus	—	—	—	—		—
Leuciscus carletoni	—					
Phoxinus neogaeus	—					
Abramis crysoleucas	—	—		+		—
Notropis bifrenatus	+					
muskoka						
blennius						
hudsonius			—			
cornutus	—	+	—	+		—
atherinoides						
rubrifrons			—			
Rhinichthys cataractae		—	—			—
atronasus	+		—	+		—
Couesius plumbeus	+	—	—			
Hybopsis kentuckiensis				—		
Exoglossum maxillingua			—			
Anguilla chrisypa	+	—	—	+	—	+
Leptocephalus conger	—			+	—	
Muraena retifera				—		
Tarpon atlanticus				—		
Elops saurus						
Albula vulpes				—	—	
Hiodon tergisus						
Etrumeus teres				+	—	
Clupea harengus	—			—	—	—
Clupanodon pseudohispanicus				—		
Pomolobus mediocris	—			+	—	
pseudoharengus	+	—		+	—	+
aestivalis	—	—				
Alosa sapidissima	—	—	—	+	—	

	Me.	N.H.	Vt.	Mass.	R.I.	Conn.
Opisthonema oglinum				—		
Brevoortia tyrannus	+			+		
Anchovia brownii				—		
argyrophanus				—		
mitchilli	—			+		
Coregonus quadrilateralis	+	—	—			
clupeiformis			—			
labradoricus	—	—				
stanleyi	—					
Argyrosomus artedi			—			
Salmo salar	—	—	—			
sebago	+					
Cristivomer namaycush	+		—			
Salvelinus fontinalis	+	—	—	+		
agassizii		—				
aureolus		—				
oquassa	—					
Osmerus mordax	+	+	+	+		—
spectrum	+					
abbottii	—					
Argentina silus	—					
Trachinocephalus myops						
Synodus foetens				+	—	
Mauroliceus pennanti				—		
Umbra limi						
pygmaea						+
Esox americanus				+	—	—
reticulatus	+	+	+	+		—
lucius			+			
masquinongy			—			
Fundulus majalis				+		
heteroclitus	—			+	—	—
diaphanus				+	—	—
Lucania parva				+		
Cyprinodon variegatus				—		—
Tylosurus marinus	—			+	—	—
acus				—		
Atlerinnes hians				—		
Hyporhamphus roberti				—	—	
Euleptorhamphus velox				—	—	
Scomberesox saurus				+	—	—
Parexocoetus mesogaster					—	
Exocoetus volitans				—	—	

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Exocoetus rondeletii				—		
Cypsilurus heterurus					—	
furcatus					—	
gibbifrons						
Eucalia inconstans						
Pungitius pungitius	—			+	—	
Gasterosteus aculeatus	+			+	—	+
atkinsii	+					
bispinosus						
Apeltes quadracus	—			+	—	
Fistularia tabacaria				—	—	
Macrorhamphosus scolopax				—		
Syngnathus fuscus	—	—		+		
Hippocampus hudsonius				—		
Percopsis guttatus			—			
Menidia beryllina cerea				—		
menidia notata	—	—		+		+
Mugil cephalus	—			+		
curema					—	
trichodon				—		—
Sphyraena barracuda				—		
guachancho				—	—	
borealis				+		
Polydactylus octonemus				—		
Ammodytes dubius				+		
americanus	—			+	—	—
Holocentrus ascensionis				—	—	
Mullus auratus				—		
Scomber scombrus	—			+	—	
japonicus	—			+		—
Auxis thazard				—	—	
Gymnosarda pelamis				—		
alleterata				—		
Thunnus thynnus	—			+		
Germo alalunga						
Sarda sarda	—			+	—	—
Scomberomorus maculatus	—			—	—	—
regalis				+	—	
cavalla				—		
Trichiurus lepturus	—			—	—	
Istiophorus nigricans				—	—	
Tetrapterus imperator				—	—	
Xiphias gladius	+			—		—

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Oligoplites saurus				—	—	
Naucrates ductor	—			+		
Seriola zonata				+		
lalandi				—	—	
dumerili						
Decapterus punctatus						
macarellus				—	—	
Trachurus trachurus						
Trachurops crumenopthalmus						
Caranxus bartholomaei				—		
hippos				+		
crysos				+		
Alectis ciliaris				+	—	—
Vomer setapinnis	+					
Selene vomer	—			+		
Chloroscombrus chrysurus				+		
Trachinotus falcatus						
goodei				—		
argenteus				—		
carolinus						
Pomatomus saltatrix	—			+		
Rachycentron canadus				—		—
Coryphaena hippurus						
Lampris regius	—					
Centrolophus niger				—		
Palinurichthys perciformis	—			+		
Gobiomorus gronovii				—	—	
Peprilus paru				—	—	
Poronotus triacanthus	—	—		+		
Tetragonurus cuvieri				—		
Amploplites rupestris			+			
Enneacanthus obesus				+		
Lepomis auritus	+		+	+	—	—
Eupomotis gibbosus	+	—	+	+	—	—
Micropterus dolomieu	—	+	—	+	—	—
salmoides	—	+	?	+	—	
Stizostedion vitreum			+			
canadense			—			
Perca flavescens	+	+	+	+	—	—
Percina caprodes			—			
Cottogaster copelandi			—			
Boleosoma olmstedi				+	—	—
Boleichthys fusiformis				+		

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Apogon imberbus					—	
maculatus				—	—	—
Roccus lineatus	+	—		+	—	—
Morone americana		—		+	—	
Epinephelus adscensionis				—		
niveatus				—	—	
morio				—		
Garrupa nigrita				—		
Mycteroperca bonaci				—		
interstitialis				—		
Centropristes striatus	+			+	—	
Rypticus bistrispinus					—	
Lobotes surinamensis				—	—	
Priacanthus arenatus				—	—	
Pseudopriacanthus altus				—	—	
Lutianus griseus				—	—	
jocu				—		
apodus				—		
blackfordii				—		
analis				—		
Ocyurus chrysurus				—		
Stenotomus chrysops	—			+	—	
Lagodon rhomboides				—	—	
Archosargus probatocephalus				+	—	—
Eucinostomus gula				—		
Kyphosus sectatrix				—	—	
Cynoscion regalis	—			+	—	—
Larimus fasciatus				—		
Sciaenops ocellatus				—		
Leiostomus xanthurus				—	—	—
Micropogon undulatus				—		
Menticirrhus saxatilis	—			+	—	—
Pogonias cromis				+	—	—
Aplodonotus grunniens			+			
Eupomacentrus leucostictus				—		
Abudefduf saxatilis					—	
Tautogolabrus adspersus	—			+	—	—
Tautoga onitis	—			+	—	
Sparisoma flavescens				—		
Scarus croicensis				—		
Zenopsis ocellatus				+		
Chaetodipterus faber				—	—	
Chaetodon ocellatus				—	—	

	Me	N.H	Ve	Mass	R	I	Cont
Chaetodon capistratus				—			
Teuthis caeruleus				—			
hepatus				—			
bahianus				—			
Balistes carolinensis				+			
forcipatus							
vetula				—			
Canthidermis sobaco				—			
Monacanthus ciliatus							
hispidus				—	—		—
Ceratacanthus schoepfii				+			
monoceros							
Lactophrys triqueter				—			
trigonus				+			
tricornis							
Lagocephalus laevigatus				+	—		—
Spheroides spengleri							
maculatus				+			
testudineus					—		
trichocephalus							
Diodon hystrix				—			
Chilomycterus schoepfi				+	—		+
Mola mola	—			+			
Sebastes marinus				+			
Scorpaena plumieri				+			—
grandicornis							
Artediellus atlanticus				—			
Triglops pingellii				+			
Cottus gracilis	+	—					
Myoxocephalus aeneus	—						
scorpius	—						
groenlandicus	+				—		
octodecimspinosus	—	—			—		—
Gymnocanthus tricuspis	—						
Hemitripterus americanus	—	—			—		
Aspidophoroides monopterygius	—			+	—		
Cyclopterus lumpus	+				—		
Eumicrotremus spinosus	—						
Neoliparis atlanticus	—			—			
Liparis liparis	—			—	—		
Prionotus carolinus	—				—		+
strigatus					—		+
Cephalacanthus volitans	—			+			

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Gobiosoma bosci				—		—
Echeneis naucrates				+	—	—
naucrateoides				+	+	
Remora remora				—		
brachyptera				—		
Rhombochirus osteochir						
Opsanus tau	—			+	—	
Pholis gunnellus	+			+	—	—
Leptoclinus maculatus				—		
Lumpenus lampetræformis	—			—		
Ulvaria subbifurcata				—		
Cryptacanthodes maculatus	—			+	—	—
Anarhichas minor	—					
lupus	+			+	—	
Zoarces anguillaris	—	—		+	—	—
Lycodes reticulatus				—	—	
verrillii					—	
Merluccius bilinearis				+	—	—
Pollachius virens	+			+		—
Microgadus tomcod	—	—		+	—	—
Gadus callarias	—			+	—	
Melanogrammus aeglifinus				+		
Lota maculosa	+	—	—	+		—
Urophycis regius	+			—		
tenuis	—			+	+	
chesteri				—		
chuss				+		—
Gaidropsarus argentatus				—		
Enchelyopus cimbrius	+			+		
Brosmius brosme		—		+		
Macrourus bairdii	—			+		
Hippoglossus hippoglossus	—			+	—	
Hippoglossoides platessoides				+	—	
Paralichthys dentatus	—			+	—	—
oblongus				+	—	—
Limanda ferruginea	—			—		
Pseudopleuronectes americanus	—			+	—	—
Liopsetta putnami	—			—	—	
Glyptocephalus cynoglossus	—			—		
Lophopsetta maculata	—			+	—	+
Achirus fasciatus				+	—	—
Lophius piscatorius	—			+	—	—
Pterophryne histrio				—	—	—
Dibranchus atlanticus					—	

MARSIPOBRANCHII.

HYPERÔTRETI.

MYXINIDAE.

1. MYXINE GLUTINOSA Linné.

Hagfish; Borer; Slime-eel.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 650. "IN OCEANO." Goode & Bean, Oceanic ichth., 1896, p. 2, pl. 1, fig. 2. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 7.

ME.— Eastport (Kendall coll. 1893); off Casco Bay (Kendall coll.).

N. H.— Directly east from Portsmouth (Putnam 1873).

HYPEROARTII.

PETROMYZONIDAE.

2. PETROMYZON MARINUS Linné.

Lamprey; Lamper-eel.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 230. "IN MARI EUROPAEO." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 10; 1900, pt. 4, fig. 3.

Petromyzon americanus Lesueur. Storer, Mem. Amer. acad., 1867, vol. 9, p. 251, pl. 38, fig. 4.

Petromyzon nigricans Lesueur. Storer, ibid., p. 253, pl. 39, fig. 6.

ME.— Eastport (U. S. nat. mus. 1872); Bucksport (U. S. nat. mus. 1878); Brunswick (Bowdoin college); Presumpscot River (Me. Fish comm. 1875); Casco Bay (Kendall 1896); Penobscot River (Kendall coll.); Stillwater (Merrill coll. 1898).

N. H.— Merrimac and Pemigewasset rivers (Belknap 1792 and 1813); Merrimac River (N. H. Fish comm. 1886).

VT.— (Thompson 1842); Manchester (N. H. Fish comm. 1891).

HYPEROARTII.

PETROMYZONIDAE.

MASS.— Connecticut River at Northhampton (Lesueur 1818); Massachusetts Bay (Storer 1839); Merrimac River, Lowell (Storer, 1839 & 1867; Lawrence (Holmes coll. B. S. N. H.); Woods Hole (Baird 1873); Beverly (Goode & Bean 1879); North Truro; Monomoy (Kendall coll. 1896); Buzzards Bay (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Providence River (DeKay 1842); Narragansett Bay; Taunton River (Tracy 1906).

CONN.— Hartford; Stratford; Stonington; Housatonic and Connecticut Rivers (Linsley 1844).

3. PETROMYZON UNICOLOR (DeKay).

Lake lamprey.

Ammocoetes unicolor DeKay, N. Y. fauna, 1842, pt. 4, p. 383, pl. 39, fig. 250 [larva]. "LAKE CHAMPLAIN."

Petromyzon marinus unicolor (DeKay) Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 10. Surface, 4th rept. fisheries, game, & forests N. Y., 18, 1899, p. 194, fig. 1, a, b.

VT.— Lake Champlain (DeKay, 1842).

4. ICHTHYOMYZON CONCOLOR (Kirtland).

Silvery lamprey; Mud-eel; Blind-eel.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 11.

Ammocoetes concolor Kirtland, Bost. journ. nat. hist., 1840, vol. 3, p. 473, pl. [larva]. "MAHONING RIVER; SCIOTO RIVER."

VT.— Winooski River (Thompson, 1842).

PISCES.

SELACHII DIPLOSPONDYLI.

CHLAMYDOSELACHIDAE.

1. CHLAMYDOSELACHUS ANGUINEUS Garman.

Frilled shark.

Garman, Bull. Essex. inst., 1884, vol. 16, p. 47. "JAPAN." Bull. mus. comp. zool., 1885, vol. 12, p. 1-35, pls. 1-20. Goode & Bean, Oceanic ichth., 1896, p. 508, pl. 6, fig. 22. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 16.

ME.— New Harbor [?] (Hanna, 1883).

ASTEROSPONDYLI.

GALEIDAE.

2. MUSTELUS CANIS (Mitchill).

Smooth-hound; Smooth-dog.

Storer, Mem. Amer. acad., 1867, vol. 9, p. 227, pl. 37, fig. 2, 2a. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 29.

Squalus canis Mitchill, Trans. lit. & philos. soc. N. Y., 1815, vol. 1, p. 486. "NEW YORK."

MASS.— Provincetown; Holmes Hole (Storer 1867); Waquoit (Lyman 1872); Salem (Goode & Bean 1879); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904); Massachusetts Bay (B. S. N. H., Borland coll.).

R. I.— (DeKay 1842); Narragansett Bay (R. I. Fish comm. 1899); Conimicut (Pope coll. 1894-97).

CONN.— Stratford (Linsley 1844); Noank; Newport (Bean 1880).

3. GALEOCERDO TIGRINUS Muller & Henle.

Tiger shark.

Muller & Henle, Plagiostomen, 1841, p. 59, pl. 23.
Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 32.

GALEIDAE.

MASS.— Provincetown [?] (Atwood 1865); Woods Hole (Baird 1873); Vineyard Sound and Buzzards Bay (Smith 1898).

4. PRIONACE GLAUCA (Linné).

Great blue-shark.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 33; 1900, pt. 4, pl. 4, 5, fig. 16, 16a.

Squalus glaucus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 235. "IN OCEANO EUROPAEO."

MASS.— Woods Hole (Smith 1898); Nantucket (Sharp & Fowler 1904).

5. CARCHARHINUS OBSCURUS (LeSueur).

Dusky shark; Shovelnose.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 31.

Squalus obscurus LeSueur, Journ. acad. nat. sci. Phil., 1818, vol. 1, p. 223, pl. 9, figs, 1, 2, 3, 4 & 5. "NEW YORK."

Carcharias obscurus Storer. Storer, Mem. Amer. acad., 1867, vol. 9, p. 219, pl. 36, fig. 2.

MASS.— Nahant (Storer 1839 & 1847); Provincetown (Storer 1867); Waquoit (Lyman 1872); Massachusetts Bay (Goode & Bean 1879); Woods Hole (Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. Fish comm. 1899).

CONN.— Stratford (Linsley 1844).

6. CARCHARHINUS MILBERTI (Müller & Henle).

Blue shark.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 37.

Carcharias (Prionodon) milberti Müller & Henle, Plagiostomen, 1841, p. 38, pl. 19, fig. 3 (teeth). "IM MITTELMEER UND IM OCEAN."

GALEIDAE.

Lamna caudata De Kay, N. Y. fauna, 1842, pt. 4, p. 354, pl. 62, fig. 205.

MASS.—Woods Hole (Baird 1873 and Smith 1898).
R. I.—Brenton Reef (DeKay 1842).

7. CARCHARHINUS LIMBATUS (Muller & Henle).

Spotted-fin shark.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 40.
Carcharias (Prionodon) limbatus Muller & Henle, Plagiostomen, 1841, p. 49. "MARTINIQUE."

MASS.—Woods Hole (Smith 1898).

SPHYRNIDAE.

8. SPHYRNA ZYGAENA (Linné).

Hammerhead shark; Hammerhead.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 45.
Squalus zygaena Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 234. "EUROPA; AMERICA."
Zygaena malleus Val. Storer, Mem. Amer. acad., 1867, vol. 9, p. 238, pl. 38, fig. 3.
MASS.—Holmes Hole (Storer 1839); Chatham; Cape Cod (Storer 1842); Holmes Hole (Storer 1842 and 1867); Chatham; Provincetown (Storer 1848); Woods Hole (Baird 1873 and Smith 1898); Nantucket (Sharp and Fowler 1904).
R. I.—Narragansett Bay (R. I. Fish comm. 1899).
CONN.—Noank (Goode 1879).

ALOPIIDAE.

9. ALOPIAS VULPES (Gmelin).

Thresher; Thrasher; Swingle-tail; Swivel-tail.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 45; 1900, pt. 4, pl. 6, fig. 20.

SELACHII. ASTEROSPONDYLI.

ALOPIIDAE.

Squalus vulpes Gmelin, Syst., nat., 1788, vol. 1, p. 1496. "MEDITERRANEAN."

Carcharias vulpes Cuv. Storer, Mem. Amer. acad., 1867, vol. 9, p. 221, pl. 36, fig. 3.

ME.— Eastport (Kendall coll. 1893); East of Matinicus and off Monhegan (Kendall coll. 1895).

MASS.— Nahant (Storer 1839); Eastside of Boston Harbor (Jackson 1852); Massachusetts Bay (Storer 1867); Provincetown (Atwood 1865); Woods Hole (Baird 1873); Vineyard Sound; Menemsha Bight; Buzzards Bay (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. Fish comm. 1899).

CONN.— Stonington (Linsley 1844).

CARCHARIIDAE.

10. CARCHARIAS LITTORALIS (Mitchill).

Sand shark; Shovel nose shark; Dogfish shark.

Squalus littoralis Mitchill, Amer. month. mag. & crit. rev., 1818, vol. 2, p. 328. "NEW YORK."

Carcharias griseus Ayres. Storer, Mem. Amer. acad., 1867, vol. 9, p. 217, pl. 36, fig. 1.

Carcharias littoralis (Mitchill). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 46.

ME.— Casco Bay at Small Point (Kendall coll. 1896).

MASS.—Lynn (Storer 1842 and 1842) Waquoit (Lyman 1872); Boston Bay (B. S. N. H., Cutting coll.); Provincetown; Nantucket (Goode 1884); Provincetown (Storer 1843?); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873; Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay at Conimicut (Pope coll. 1894–97).

LAMNIDAE.

11. ISURUS DEKAYI (Gill).

Mackerel shark.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 48, 1900; pt. 4, pl. 6, fig. 21.

Isuropsis dekayi Gill, Ann. lyc. nat. hist. N. Y., 1861, vol. 7, p. 409.

Lamna punctata Mitchill. Storer, Report, 1839, p. 185, pl. 3, fig. 2.

ME.— Casco Bay (U. S. Nat. Mus. 1873).

MASS.— "In our bay" (Storer 1839); Marshfield (Storer 1839); Woods Hole (Baird 1873); Vineyard Sound; Buzzards Bay (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Tiverton; Point Judith (U. S. nat. mus. 1887); Narragansett Bay (R. I. Fish comm. 1899).

CONN.— Oyster River; Stratford (Linsley 1844).

12. LAMNA CORNUBICA (Gmelin).

Mackerel shark; Blue shark.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 49; 1900, pt. 4, pl. 6, fig. 22.

Squalus cornubicus Gmelin, Syst. nat., 1788, vol. 1, p. 1497. "SHORES OF CORNWALL."

Lamna punctata Mitchill. Storer, Mem. Amer. acad., 1867, vol. 9, p. 225, pl. 37, fig. 1.

ME.— Off Monhegan (Storer 1867; Kendall coll. 1895); Casco Bay (Bowdoin College); off Cape Elizabeth (Norton coll. 1905).

MASS.— Provincetown (Storer 1867); off Gloucester (Goode & Bean 1879).

R. I.— (Tracy 1906).

13. CARCHARODON CARCHARIAS (Linné).

Maneater; Great white shark.

Jordan & Evermann, Bull. 47, U. S. nat. mus. 1896, pt. 1, p. 50.

SELACHII. ASTEROSPONDYLI.

LAMNIDAE.

Squalus carcharias Linné, Syst. nat., ed. 10, 1758, p. 235. "EUROPA."

Carcharias atwoodi Storer. Storer, Mem. Amer. acad., 1867, vol. 9, p. 222, pl. 36, fig. 4.

ME.— Eastport (Goode 1884).

MASS.— Provincetown (Storer 1848 and 1854, 1867); Waquoit (Lyman 1872); Massachusetts Bay (Goode & Bean 1879); Woods Hole (Baird 1873 and Smith 1898).

CETORHINIDAE.

14. CETORHINUS MAXIMUS (Gunner).

Basking shark; Bone shark.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1891, pt. 1, p. 51; 1900, pt. 4, pl. 7, fig. 23.

Squalus maximus Gunner, Trondhjem selskabskr, 1765, vol. 3, p. 33. "COAST OF NORWAY."

Selachus maximus Cuv. Storer, Mem. Amer. acad., 1867, vol. 9, p. 229, pl. 37, fig. 3.

ME.— Off Cape Elizabeth (Storer 1867); Eastport (Verrill 1870).

MASS.— Provincetown (Mitchill 1815 and Storer 1839, 1840 and 1867).

CYCLOSPONDYLI.

SQUALIDAE.

15. SQUALUS ACANTHIAS Linné.

Dogfish.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 233. "IN OCEANO EUROPAEO." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 54; 1900, pt. 4, pl. 8, figs. 24, 24a.

SQUALIDAE.

Acanthias americanus Storer. Storer, Mem. Amer. acad., 1867, vol. 9, p. 232, pl. 38, figs. 1, 1a.

ME.— Eastport (U. S. nat. mus. 1872; Bean 1880); Matinicus; Isle au Haute; Stockton Springs; Searsport; Gotts Island; Mt. Desert Rock; Sandy Point (Evermann 1903); Casco Bay (Bowdoin College; Kendall coll.).

MASS.— (Storer 1846) West Yarmouth (Lyman 1861); Provincetown; Massachusetts Bay; Marthas-Vineyard (Storer 1867); Waquoit (Lyman 1872); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Gloucester (Bean 1880); Nantucket (Sharp & Fowler 1904).

R. I.— (Tracy 1906).

16. CENTROSCYMNUS COELOLEPIS Bocage & Capello.

Bocage & Capello, Proc. zool. soc. London, 1864, p. 263, fig. 4. "PORTUGAL." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 55; 1900, pt. 4, pl. 8, fig. 25.

MASS.— Off Gloucester (Jordan & Evermann 1896).

17. CENTROSCYLLIUM FABRICII (Reinhardt).

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 56; 1900, pt. 4, pl. 8, fig. 26.

Spinax fabricii Reinhardt, Dansk. vid. selsk. forh., 1828, vol. 3, p. 14. "GREENLAND."

MASS.— Off Gloucester (Bean 1880 and Jordan & Evermann 1896).

SOMNIOSIDAE.

18. SOMNIOSUS MICROCEPHALUS (Bloch & Schneider).

Sleeper shark; Nurse.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 57.

Squalus microcephalus Bloch & Schneider, Syst. ichth., 1801, p. 135. "NORTHERN SEAS."

SELACHII. CYCLOSPONDYLI.

SOMNIOSIDAE.

Scymnus brevipinna DeKay. Storer, Mem. Amer. acad., 1867, vol. 9, p. 235, pl. 38, fig. 2.

Me.— Eastport (U. S. nat. mus. 1872); off Portland Wood 1846); Portland (Goode & Bean 1896).

Mass.— Marblehead (LeSueur 1818); Coast of Massachusetts (Kneeland, 1847); Nahant (Storer 1849 and 1867); Provincetown (Storer 1848 and 1867).

ECHINORHINIDAE.

19. Echinorhinus spinosus (Gmelin).

Goode & Bean, Oceanic ichth., 1896, p. 8, pl. 3, fig. 9. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 4, 58.

Squalus spinosus Gmelin, Syst. nat., 1788, vol. 1, p. 1500. "The Ocean."

Mass.— Provincetown (Goode & Bean 1879 and 1896).

SQUATINIDAE.

20. Squatina squatina (Linné).

Angelfish; Monkfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 58.

Squalus squatina Linné, Syst, nat., ed. 10, 1758, vol. 1, p. 233. "In Oceano Europaeo."

Squatina dumerili DeKay, N. Y. fauna, 1842, pt. 4, p. 363, pl. 62, fig. 203.

Mass.— Woods Hole (Baird 1873) Menemsha Bight (Smith 1898).

BATOIDEI.

RAJIDAE.

21. Raja erinacea Mitchill.

Little skate; Bonnet skate.

Mitchill, Amer. journ. sci., 1825, vol. 9, p. 291. "New York."

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 68; 1900, pt. 4, pl. 9, fig. 29.

Raia diaphanes Mitchill. Storer, Mem. Amer. acad., 1867, vol. 9, p. 240 [in part], pl. 39, fig. 1?

ME.— Eastport (U. S. nat. mus., 1872); Casco Bay (Bowdoin College; Kendall coll.).

MASS.— Provincetown; Nahant; Charles River (Storer 1863); Massachusetts Bay (B. S. N. H., Cutting coll.); Waquoit (Lyman 1872); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Woods Hole; Provincetown, Gloucester (Bean 1880); Woods Hole (Baird 1873 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. Fish comm. 1899); Conimicut (Pope coll. 1894–97).

CONN.— Mouth Connecticut River (Garman 1874); Noank (Bean 1880) Long Island Sound, off Bridgeport; off Stratford and Middle Ground (Kendall coll. 1890); off S. W. Ledge; off Brandford Beacon; off Faulkners Island (Kendall coll. 1892).

22. RAJA OCELLATA Mitchill.

Big skate; Winter skate.

Mitchill, Trans. lit. & philos. soc. N. Y., 1815, vol. 1, p. 477. "NEW YORK." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 68; 1900, pt. 4, pl. 10, fig. 50.

Raia diaphanes Mitchill. Storer, Mem. Amer. acad., 1867, vol. 9, p. 240 [in part].

ME.— Eastport (U. S. nat. mus., 1872); Portland Goode & Bean 1879); Smallpoint, Casco Bay (Kendall coll. 1896).

MASS.— Provincetown (Storer 1863); Waquoit (Lyman 1872); Nahant (Garman 1874); Woods Hole; Provincetown; Gloucester (Bean 1880); North Truro; Monomoy (Kendall coll. 1896); Woods Hole (Baird 1873 and Smith 1898).

R. I.— Narragansett Bay (Tracy 1906).

CONN.— Stratford (Linsley 1843?); Long Island Sound, off Bridgeport and Stratford (Kendall coll. 1890).

23. RAJA RADIATA Donovan.

Prickly skate.

Donovan, Hist. Brit. fishes, 1808, vol. 5, p. 94, pl. "GREAT BRITAIN." Goode & Bean, Oceanic ichth., 1896, p. 508, pl. 9, fig. 27. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 69.

ME.— Casco Bay (Portland soc. nat. hist.).

MASS.— Nahant (Garman 1874); Annisquam (B. S. N. H.); Salem; Gloucester; Provincetown (Bean 1880); Woods Hole (Bean 1880 & Smith 1898).

CONN.— New London [?] (Linsley 1844); Noank (B. S. N. H., Hyatt & Rathbun coll.).

24. RAJA EGLANTERIA (Bosc).

Briar skate.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 71.

Raia eglanteria Bosc. Lacépède, Hist. nat. poissons 1800, vol. 2, p. 103. "CHARLESTON, S. C."

? *Raja ocellata* De Kay, N. Y. fauna, 1842, pt. 4, p. 369, pl. 65, fig. 212.

MASS.— Penikese Island (Garman 1874); Gloucester; Provincetown (Bean 1880); Menemsha Bight (Smith 1898).

CONN.— Stratford (Linsley 1844); Noank (B. S. N. H.).

25. RAJA SENTA Garman.

Garman, Proc. U. S. nat. mus., 1885, vol. 8, p. 43. "CAPE COD BAY." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 71.

MASS.— Cape Cod Bay (Garman 1885).

RAJIDAE.

26. RAJA LAEVIS Mitchill.

Barndoor skate.

Mitchill, Amer. month. mag. & crit. rev., 1817, vol. 2, p. 327. "NEW YORK." Goode & Bean, Oceanic ichth., 1896, p. 28, pl. 9, fig. 29. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 71.

Raia laevis Mitchill. Storer, Mem. Amer. acad., 1867, vol. 9, p. 242, pl. 39, fig. 2.

ME.— Eastport (U. S. nat mus., 1872); Casco Bay (Kendall coll. 1896).

MASS.— New Bedford (Storer 1839); Massachusetts Bay (Storer 1863; Garman 1874); Waquoit (Lyman 1872); Woods Hole (Baird 1873 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— (Tracy 1906).

CONN.— (Linsley 1844); Noank (Goode 1879).

NARCOBATIDAE.

27. TETRONARCE OCCIDENTALIS (Storer).

Torpedo; Numbfish; Crampfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 77; 1900, pt. 4, pl. 11, fig. 33.

Torpedo occidentalis Storer, Amer. journ. sci., 1843, vol. 44, p. 165, pl. 3. "MASSACHUSETTS." Mem. Amer. acad., 1867, vol. 9, p. 247, pl. 39, fig. 5.

ME.— Off Seguin; Casco Bay (Smith & Kendall 1897).

MASS.— Truro (Storer 1839); Chilmark 3 miles from Gay Head (Storer 1847); Provincetown (Storer 1843, 1845, 1845b and 1863); Wellfleet (Storer 1839, 1843?, 1843 and 1863). Thatchers Island;

NARCOBATIDAE.

Lanesville (Goode & Bean 1879); Woods Hole (Baird 1873 and Smith 1898).

R. I.—Narragansett Bay (R. I. Fish comm. 1899); off Sakonnet (Tracy 1906).

CONN.—Stratford (Linsley 1844).

DASYATIDAE.

28. DASYATIS CENTRURA (Mitchill).

Sting ray; Stingaree; Clam-cracker.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 83.

Raja centrura Mitchill Trans. lit. and philos. soc. N. Y., 1815, vol. 1, p. 479. "COAST OF LONG ISLAND."

Pastinaca hastata DeKay. Storer, Mem. Amer. acad., 1867, vol. 9, p. 244, pl. 39, fig. 3.

MASS.—Holmes Hole (Storer 1842, 1842, and 1863); Chatham (Storer 1857 and 1863); Woods Hole (Baird 1873 and Smith 1898).

R. I.—Narragansett Bay (R. I. Fish comm. 1899).

CONN.—Stratford (Linsley 1844).

29. DASYATIS HASTATA (DeKay).

Sting ray.

Jordan & Evermann, Bull. 47 U. S. nat. mus., 1896, pt. 1, p. 83.

Pastinaca hastata DeKay, N. Y. fauna, 1842, pt. 4, p. 373, pl. 65, fig. 214. "RHODE ISLAND."

MASS.—Holmes Hole (Storer 1842); Chatham (Storer 1858).

R. I.—(DeKay 1842).

30. PTEROPLATEA MACLURA (LeSueur).

Butterfly ray.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 86.

Raja maclura LeSueur, Journ. acad. nat. sci. Phil., 1817, vol. 1, p. 41, pl. [1], figs. 1, 2, a, b, c. "NEWPORT, R. I."

DASYATIDAE

Pastinaca maclura LeSueur. DeKay, N. Y. fauna, 1842, pt. 4, p. 375, pl. 65, fig. 213.

MASS.—Woods Hole (Baird 1873 and Smith 1898).

R. I.—Newport LeSueur 1817; De Kay 1842); Narragansett Bay (R. I. Fish comm. 1899).

CONN.—Saybrook; New Haven (Linsley 1844).

MYLIOBATIDAE.

31. MYLIOBATIS FREMINVILLEI LeSueur.

Eagle ray.

LeSueur, Journ. acad. nat. sci. Phil., 1824, vol. 4, p. 111. "RHODE ISLAND." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 89.

Myliobatis acuta Ayres. Storer, Mem. Amer. acad., 1867, vol. 9, p. 245, pl. 39, fig. 4.

MASS.—Holmes Hole (Storer 1841, 1842, and 1863); Waquoit (Lyman 1872); Woods Hole (Baird 1873 and Smith 1898).

R. I.—(LeSueur 1824); Narragansett Bay (Tracy 1906).

CONN.—(Ayres 1841; Linsley 1844); Noank (Garman 1885).

32. RHINOPTERA BONASUS (Mitchill).

Cow-nose ray.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 90.

Raja bonasus Mitchill, Trans. lit. & philos. soc. N. Y., 1815, vol. 1, p. 479. "NEW YORK."

Rhinoptera quadriloba LeSueur. DeKay, N. Y. fauna, 1842, pt. 4, p. 375, pl. 66, fig. 217.

MASS.—Woods Hole (Baird 1873 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.—Narragansett Bay (R. I. Fish comm. 1899); off Block Island (Tracy 1906).

CONN.—Stratford (Linsley 1844).

TELEOSTOMI. CHONDROSTEI.

ACIPENSERIDAE.

33. ACIPENSER STURIO Linné.

Common sturgeon.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 237. "MARI EUROPAEO." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 105; 1900, pt. 4, pl. 20, fig. 45.

Acipenser oxyrhinchus Mitchill. Storer, Mem. Amer. acad., 1863, vol. 8, p. 431, pl. 35, fig. 4.

ME.— Kennebec River (Storer 1863); Androscoggin River (Atkins 1887); Cathance River, tributary of Kennebec (Kendall coll. 1901); Penobscot River and Bay (Evermann 1903).

MASS.— Charles River at Watertown (Storer 1839); Deer Island (Storer 1842); outside Boston Harbor; Truro (B. S. N. H.); Provincetown (Storer 1863); Waquoit (Lyman 1872); Merrimac River at Lawrence (Goode & Bean 1879); Monomoy (Kendall coll. 1896); Menemsha Bight; Woods Hole (Baird 1873 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. Fish comm. 1899); off Sakonnet; off Quonset; Block Island (Tracy 1906).

CONN.— Long Island Sound (Linsley 1844).

34. ACIPENSER RUBICUNDUS LeSueur.

Lake sturgeon; Stone sturgeon; Rock sturgeon.

LeSueur, Trans. Amer. philos. soc., 1818, vol. 1, p. 388, pl. 12. "LAKES ONTARIO, ERIE, AND ALL THE UPPER LAKES." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 106; 1900, pt. 4, pl. 21, fig. 46.

VT. — Lake Champlain (Thompson 1842; Evermann & Kendall 1894); (Storer 1842).

35. ACIPENSER BREVIROSTRUM LeSueur.

Short-nose sturgeon.

LeSueur, Trans. Amer. philos. soc., 1818, vol. 1, p. 390. "DELA-

ACIPENSERIDAE.

WARE RIVER." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 106.

MASS.— Boston Harbor [?] (Durkee 1855); Waquoit [?] (Lyman 1872); Rockport [?] (Goode & Bean 1879); Woods Hole [?] (Baird 1873 and Smith 1898).

R. I.— [?] (Tracy 1906).

RHOMBOGANOIDEA.

LEPISOSTEIDAE.

36. LEPISOSTEUS OSSEUS (Linné).

Gar; Gar-pike.

Jordan & Evermann, Bull. 47 U. S. nat. mus., 1896, pt. 1, p. 109.

Esox osseus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 313. "AMERICA SEPTENTRIONALI, ASIA."

Lepisosteus lineatus Thompson, Hist. Vermont, 1842, p. 145, fig. [young].

Lepisosteus bison DeKay, N. Y. fauna, 1842, pt. 4, p. 271, pl. 43, fig. 139.

VT.— Lake Champlain; Winooski River (Thompson 1842); (Storer 1842).

CYCLOGANOIDEA.

AMIIDAE.

37. AMIA CALVA Linné.

Mudfish; Dogfish; Bowfish; Grindle.

Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 500. "CAROLINAE AQUIS DULCIBUS, VARIUS ESCULENTUS." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 113; 1900, pt. 4, pl. 22, fig. 51.

Amia ocellicauda Thompson, Hist. Vermont. Appendix, 1842, p. 35.

TELEOSTOMI. CYCLOGANOIDEA.

AMIIDAE.

VT.—Whitehall, Otter Creek; Lake Champlain; Winooski River (Thompson 1853).

NEMATOGNATHI.

SILURIDAE.

38. FELICHTHYS MARINUS (Mitchill).

Gafftopsail cat.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 118; 1900, pt. 4, pl. 23, fig. 52.

Silurus marinus Mitchill, Trans. lit. & philos. soc. N. Y., 1815, vol. 1, p. 433. "NEW YORK."

MASS.—Woods Hole (Baird 1873); New Bedford (Goode 1879); Menemsha Bight (Smith 1898).

R. I.—Brentons Reef (Tracy 1906); Newport (B. S. N. H. Powell coll.).

39. GALEICHTHYS FELIS (Linné).

Sea catfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 128; 1900, pt. 4, pl. 23, fig. 52.

Silurus felis Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 503. "CAROLINA."

MASS.—Vineyard Sound (Smith 1898).

R. I.—Narragansett Bay (R. I. Fish comm. 1899).

40. AMEIURUS LACUSTRIS (Walbaum).

Great forked-tail cat; Mathemeg.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 137.

Gadus lacustris Walbaum, Artedi Pisc., 1792, p. 144. "ARCTIC AMERICA."

VT.—Lake Champlain; Winooski River (Thompson 1842); Lake Champláin at Swanton (Evermann & Kendall 1894).

SILURIDAE.

41. AMEIURUS VULGARIS Thompson.

Bullhead.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 140.

Pimelodus vulgaris Thompson, Hist. Vermont, 1842, p. 138. "LAKE CHAMPLAIN." Jordan, Bull. 10, U. S. nat. mus., 1877, p. 88, pl. 18, fig. 33; pl. 19, fig. 34.

VT.—Lake Champlain (Thompson 1842).

42. AMEIURUS NEBULOSUS (LeSueur).

Bullhead; Hornpout; Minister.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 140.

Pimelodus nebulosus LeSueur, Mem. mus., 1819, vol. 5, p. 149. "LAKE ONTARIO."

Pimelodus atrarius DeKay. Storer, Mem. Amer. acad., 1855, vol. 5, p. 279, pl. 20, fig. 3.

ME.—Almost everywhere common. Sebago Lake and outlet (B. S. N. H., Putnam coll.); St. Croix; St. Johns; Union Penobscot; Kennebec; Androscoggin and Presumpscot river basins (Kendall coll.).

N. H.—Almost everywhere common. Cold, Caldwell, Warrens, Pout, Great, Boyces, Bradford, Todds, Goose, Clark, Mud, Lily, Indian, Clarksville, Butternut, Stocker, Eastmans, Miller, Angle, Island, Wash, Long, White Oak, Flints, Pennichuck, Rocky, Lakins, Hinmans, Sawyers, Clay, Smiths, Clements, Grassy, Rolfes, Carrs, Little Massabessic, Otternick, Cherry, Great, Country, Little, Crooked, Spaldings, Cedar, Nays, Pratts, Clarks, Otter, Little Sunapee, Suncook, Jennes, Little Bow, Harvey, Knowltons, Duncan, Gumpars, Whites, Cunningham, Moses, Cass, Captains, Worldsend, Hunkins, Morgan, Baptist, Bow, Little Bow, Trout, Boulster, Cones, Bear, Pleasant, Jones, Simmons, Day, Great, Bakers, Line, Cabots, Policy, Hititite, Nut-

TELEOSTOMI. NEMATOGNATHI.

SILURIDAE.

chells, Beach, Sargent and Bartons ponds, and Squam Lake. (N. H. Fish comm.).

VT.— Connecticut River & larger tributaries; Barnat (Thompson 1842); Connecticut River; Lake Champlain; Clyde River; Lake Memphremagog (Evermann & Kendall 1894).

MASS.— "Throughout the state" (Storer 1855); Jamaica Plains (B. S. N. H., Van Vleck & Henshaw coll.); Warwick (B. S. N. H., Putnam coll.); East Wareham (Goode 1879); Quashnet River, Falmouth (Kendall coll. 1894).

R. I.— Mashapaug, Randalls, Benedict and Fenners ponds; Ponegansett Reservoir; Pocassett River (Pope coll. 1888–1896).

CONN.— Salsbury Lake; Thatcherville Factory Pond, near Bridgeport (Linsley 1844).

EVENTOGNATHI.

CATOSTOMIDAE.

43. CARPIODES THOMPSONI Agassiz.

Carp-sucker; Buffalo; Drum.

Agassiz, Amer. journ. sci., 1855, vol. 19, p. 191. "LAKE CHAMPLAIN." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 167.

VT.— Lake Champlain (Agassiz 1855; Evermann & Kendall 1894).

44. CATOSTOMUS CATOSTOMUS (Forster).

Long-nose sucker; Red sucker.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 176; 1900, pt. 4, pl. 32, fig. 77.

Cyprinus catostomus Forster, Philos. trans., 1773, p. 155. "STREAMS ABOUT HUDSON BAY."

TELEOSTOMI EVENTOGNATHI

CATOSTOMIDAE

ME.—Cupsuptic Lake (B. S. N. H., Putnam coll.); Craigs Brook; Alamoosook Lake; Toddy Pond; Glasier Lake; Eagle Lakes, Aroostook County (Kendall 1902); Umbagog Lake (Kendall & Goldsborough coll. 1905).

N. H.—Connecticut Lakes and tributaries of Upper Connecticut River (Kendall & Goldsborough coll. 1904); Umbagog Lake (Kendall & Goldsborough coll. 1905).

VT.—(LeSueur, 1817); Sleeper River; Caspian Lake (Evermann & Kendall 1902).

45. CATOSTOMUS COMMERSONII (Lacépède).

Sucker; White sucker; Black sucker.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 178; 1900, pt. 4, pl. 34, fig. 83.

Cyprinus commersonii Lacépède, Hist. nat. poissons, 1803, vol. 5, p. 502.

Catostomus bostoniensis LeSueur. Storer, Mem. Amer. acad., 1855, vol. 5, p. 290, pl. 22, fig. 3.

ME.—Everywhere abundant. Moosehead Lake (B. S. N. H. Davidson coll.). Cambridge River, Upton; Sebago Lake and outlet (B. S. N. H. Putnam coll.); St. Johns, St. Croix; Union; Penobscot; Androscoggin, Kennebec, Presumbscot river basins and many other localities (Kendall coll.).

N. H.—Everywhere common. Stocker, Angle, Island, Wash, Big Dummer, Little Dummer, Corner, Otter, Little Sunapee, Moses, Stinsons, Bow and Great ponds (N. H. Fish comm.). Connecticut Lakes and tributaries of upper Connecticut River (Kendall & Goldsborough coll. 1904); Umbagog Lake (Kendall & Goldsborough coll. 1905).

VT.—Common everywhere. (Thompson 1842); Lake Champlain; Passumpsic River, Clyde River; Memphremagog and Caspian lakes (Evermann & Kendall 1902).

TELEOSTOMI. EVENTOGNATHI.

CATOSTOMIDAE.

MASS.— Neighborhood of Boston (Le Sueur 1817); Charles River at Watertown (Storer 1839 and 1855); Williamstown (B. S. N. H. Buck & Nason coll.); Fresh Pond, Cambridge (B. S. N. H. Van Vleck coll.); very common (Goode & Bean 1879); Quashnet River, Falmouth (Kendall coll. 1894); near Woods Hole (Smith 1898).

R. I.— "Narragansett Bay" (R. I. Fish comm. 1899); Mashapaug Pond (Pope coll. 1895).

CONN.— (DeKay 1842); "Passim" (Linsley 1844).

46. CATOSTOMUS NIGRICANS LeSueur.

Hog-sucker; Stone roller; Black sucker.

LeSueur, Journ. acad. nat. sci. Phil., 1817, vol. 1, p. 102. "LAKE ERIE." Bean, Fish Penn., 1893, p. 26, pl. 21, fig. 31. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 181.

VT.— Sleeper River at St. Johnsbury (Evermann & Kendall 1894).

MASS.— Walpole [?] (Storer 1839).

47. ERIMYZON OBLONGUS (Mitchill).

Chubsucker; Roach; Barvel.

Cyprinus oblongus Mitchill, Rept. fish. N. Y., 1814, p. 22, fresh streams and lakes ["NEW YORK"].

Catostomus tuberculatus DeKay, N. Y. fauna, 1842, pt. 4, p. 190 [in part].

Catostomus gibbosus LeSueur. Storer, Mem. Amer. acad., 1855, vol. 5, p. 291, pl. 22, fig. 4.

Erimyzon sucetta oblongus (Mitchill) Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 186.

ME.— Sebago Lake, Little Sebago Lake; Thomas Pond; Songo and Presumbscot rivers (Kendall coll.).

TELEOSTOMI. EVENTOGNATHI

CATOSTOMIDAE.

N. H.—(DeKay 1842); Squam Lake; White Oak Pond (N. H. Fish comm.).

VT.—[?] (Storer 1843).

MASS.—Connecticut River, Northampton (LeSueur 1817; Storer 1839); Watertown (Storer 1839); Miles River, Menham (Goode & Bean 1879); Quashnet River, Falmouth (Kendall coll. 1894); Fresh Pond Cambridge (B. S. N. H. Van Vleck coll.).

R. I.—"Narragansett Bay," (R. I. Fish comm. 1899).

CONN.—"Housatonic" (Linsley 1844).

48. MOXOSTOMA AUREOLUM (LeSueur).

Redhorse; Mullet; Red-fin sucker.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 192.

Catostomus aureolus LeSueur, Journ. acad. nat. sci. Phil., 1817, vol. 1, pl. [18], p. 95. "LAKE ERIE, NEAR BUFFALO." DeKay, N. Y. fauna, 1842, pt. 4, p. 201, pl. 42, fig. 133.

VT.—Lake Champlain (Thompson 1842; Evermann & Kendall 1894).

CYPRINIDAE.

49. CHROSOMUS ERYTHROGASTER Rafinesque.

Red-bellied minnow.

Rafinesque, Ichth. Ohioensis, 1820, p. 47. "OHIO RIVER." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 209. Bean, Fish. Penn., 1893, p. 32, pl. 22, fig. 35.

ME.—Freeport (Kendall & Smith 1894); Eagle Lakes, Aroostook Co.; Matagamon River; Matagamonsis Lake; Penobscot River at Bangor; Cobbosseecontee Lake; Lake Auburn (Kendall coll.).

N. H.—Indian Stream tributary of Upper Connecticut River, near Pittsburg, Coos County (Kendall & Goldsborough coll. 1904).

TELEOSTOMI. EVENTOGNATHI.

CYPRINIDAE.

50. PIMEPHALES NOTATUS (Rafinesque).

Blunt-nose minnow.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 218.

Minnilus notatus Rafinesque, Ichth. Ohioensis, 1820, p. 47. "OHIO RIVER."

Hyborhynchus notatus (Raf.), Cope, Trans. Amer. philos. soc., 1869, vol. 13, p. 392, pl. 13, fig. 5.

VT.— Lake Champlain (Evermann & Kendall 1894); Swanton (Carter coll. 1907).

51. PIMEPHALES ANULI Kendall.

Blunt-nose; Rings minnow.

Kendall, Bull. U. S. fish comm., 1903, vol. 22, p. 360, fig. "CROSS LAKE THOROUGHFARE, EAGLE LAKES, AROOSTOOK COUNTY, MAINE."

ME.— Eagle Lakes, Aroostook County; Lunkasoos Lake, Penobscot County (Kendall 1903).

52. SEMOTILUS BULLARIS (Rafinesque).

Chub; Dace; Chiven.

Cyprinus bullaris Rafinesque, Amer. month. mag. & crit. rev., 1817, vol. 1, p. 120. "HUDSON RIVER AND WORD CREEK."

Cheilonemus pulchellus Girard. Storer, Mem. Amer. acad., 1855, vol. 5, p. 286, pl. 22, fig. 2.

Semotilus corporalis (Mitchill). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 221.

ME.— Almost everywhere abundant. Richardson Lake & Metallick Brook; Sebago Lake and outlet (B. S. N. H., Putnam coll.); Moosehead Lake (B. S. N. H., Davidson coll.); St. Johns;

St. Croix, Union, Penobscot; Kennebec; Androscoggin, Presumpscot river basins (Kendall coll.).

N. H.—Everywhere. Squam Lake and Winnipesaukee (B. S. N. H., Storer coll.); Connecticut Lakes and Upper Connecticut River waters (Kendall & Goldsborough coll. 1904).

Vt.—Lake Champlain (Thompson 1842).

Mass.—Almost everywhere. Worcester County; Walpole (Storer 1839); Menham Lake (Goode & Bean 1879); New Bedford (Goode 1879); South Hadley Falls (Bean 1880); Quashnet River, Falmouth (Kendall coll. 1894); Boston and Waltham (B. S. N. H.); Ipswich (B. S. N. H., Brown coll.).

Conn.—"Common" (Linsley 1844).

53. Semotilus atromaculatus (Mitchill).

Horned dace; Mummychub; Mud-chub.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 222; 1900, pt. 4, pl. 40, fig. 100.

Cyprinus atromaculatus Mitchill, Amer. monthly mag. & crit. rev., 1818, vol. 2, p. 324. "Wallkill River, New York."

Me.—Widely common. (Linsley 1844); Freeport (Kendall & Smith 1894); Eagle Lakes, Aroostook County; Allagash River lakes; Matagamon River waters; West Branch Penobscot River waters; Union River basin; Kennebec River waters; Androscoggin River waters; Royals River basins (Kendall coll.); Matagamon waters (Smith 1902).

N. H.—Upper Connecticut River and tributaries; Connecticut Lakes (Kendall & Goldsborough coll. 1904).

Vt.—Western part of Vermont (Thompson 1853); Clyde River; Memphremagog Lake (Evermann & Kendall 1894); East Creek & Caspian Lake (Evermann & Kendall 1902).

Mass.—Housatonic River (?); Brooks near Williams College [?] (Storer [Putnam] 1867).

TELEOSTOMI. EVENTOGNATHI.

CYPRINIDAE.

CONN.— Stratford; Canaan (Linsley 1844); Fairfield County (Ayres 1850).

54. LEUCISCUS CARLETONI Kendall.

Carletons Chub-minnow.

Kendall, Bull. U. S. fish comm., 1903, vol. 22, p. 357, fig. 1. "BILL FISH BROOK, TRIBUTARY OF EAST BRANCH PENOBSCOT RIVER, A MILE BELOW MATAGAMON LAKE."

ME.— Bill Fish Brook, tributary of Matagamon River; Southards pond, tributary of Hale Pond of West Branch of Penobscot River; Smith Brook, outlet of Haymock Lake, tributary of Allagash River; Eagle Lakes, Aroostook County (Kendall 1903); Bangor (Bowdoin College).

55. PHOXINUS NEOGAEUS Cope.

Bronze minnow.

Cope, Trans. Amer. philos. soc., 1869, vol. 13, p. 375. "NEW HUDSON, LIVINGSTONE COUNTY, MICHIGAN."

Leuciscus neogaeus (Cope). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 240. Kendall, Bull. U. S. fish comm., 1903, vol. 22, p. 356.

ME. – Bill Fish Brook, tributary of Matagamon River; Matagamonsis Lake; Southards Pond near Hale Pond, tributary of West Branch of Penobscot River; Smith Brook, outlet Haymock Lake, tributary of Allagash River (Eagle Lake); Cross Lake Thoroughfare, Eagle Lakes, Aroostook County; Lunkasoos Lake, tributary of Matagamonsis Lake (Kendall 1903); Cambridge River, tributary of Umbagog Lake (Kendall & Goldsborough coll. 1905).

N. H.— Indian Stream, tributary of Connecticut River near Pittsburg, Coos County (Kendall & Goldsborough coll. 1904).

CYPRINIDAE.

56. ABRAMIS CRYSOLEUCAS (Mitchill).

Golden shiner; Roach; Bream.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 250; 1900, pt. 4, pl. 45, fig. 111.

Cyprinus crysoleucas Mitchill, Rept. fish. N. Y., 1814, p. 23. "NEW YORK."

Leucosomus americanus Girard. Storer, Mem. Amer. acad., 1855, vol. 5, p. 118, pl. 21, fig. 2.

ME.—Widely common. Eagle Lakes, Aroostook County; St. Croix and other waters Washington County; Penobscot Androscoggin; Kennebec, Presumpscot river waters (Kendall coll.).

N. H.—Umbagog Lake (Kendall & Goldsborough Coll. 1904).

VT.—Lake Champlain (Thompson 1842).

MASS.—Fresh Pond, Cambridge (B. S. N. H., Van Vleck coll.); Rileys Pond, Waltham (B. S. N. H., Warren coll.); Quashnet River, Falmouth (Kendall coll. 1894); Wenham Lake (Goode & Bean 1879).

R. I.—"Narragansett Bay" (R. I. Fish Comm. 1899); Mashapaug and Benedict ponds (Pope coll. 1888–1896).

CONN.—"Common" (Linsley 1844).

57. NOTROPIS BIFRENATUS (Cope).

Bridled minnow.

Jordan and Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 258. Kendall, Bull. U. S. fish comm., 1903, vol. 22, p. 361.

Hybopsis bifrenatus Cope, Trans. Amer. philos. soc., 1869, vol. 13, p. 384. "SCHUYLKILL AT CONSHOHOCKEN [PA.]."

ME.—Sebago and Little Sebago lakes (Kendall 1903); outlet Chaffin Pond, tributary to Sebago Lake (Kendall coll.).

MASS.—(Jordan & Evermann 1896).

TELEOSTOMI. EVENTOGNATHI.

CYPRINIDAE.

8. NOTROPIS MUSKOKA Meek.

Muskoka minnow.

Meek, Publ. 41, Field Columb. mus., Zoöl. ser., 1899, vol. 1, p. 308. "GULL LAKE, ONTARIO." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1900, pt. 4, p. 3140.

ME.— Bill Fish Brook, tributary to Matagamon River (East Branch of Penobscot); Hay Brook tributary to Matagamon on Grand Lake Thoroughfare; Smith Brook, outlet of Haymock Lake, tributary of Eagle Lake of Allagash River; Cross Lake Thoroughfare, Eagle Lakes, Aroostook County (Kendall coll. 1901 and 1903); Matagamon waters (Smith 1902).

59. NOTROPIS BLENNIUS (Girard).

Straw-minnow.

Jordan & Evermann, Bull. 47, U. S. Nat. Mus., 1896, pt. 1, p. 261.

Alburnops blennius Girard, Proc. acad. nat. sci. Phil., 1856, p. 194, "ARKANSAS RIVER."

VT.— Lake Champlain, Swanton (Carter coll. 1907).

60. NOTROPIS HUDSONIUS (Clinton).

Spawneater; Shiner; Smelt.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 269; 1900, pt. 4, pl. 47, fig. 119.

Clupea hudsonia Clinton, Ann. lyc. nat. hist. N. Y., 1824, vol. 1, p. 49, pl. 2, fig. 2. "ALBANY, AND OTHER PLACES ON THE HUDSON RIVER [N. Y.]."

Hybopsis hudsonius Clinton. Cope, Trans. Amer. philos. soc., 1869, vol. 13, p. 386, pl. 12, fig. 3.

VT.— Lake Champlain (Evermann & Kendall 1894).

TELEOSTOMI EVENTOGNATHI

CYPRINIDAE

61. NOTROPIS CORNUTUS (Mitchill).

Shiner; Redfin.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 281.

Cyprinus cornutus Mitchill, Amer. monthly mag. & crit. rev., 1817, vol. 1, p. 289. "WALLKILL RIVER [NEW YORK]."

Hypsolepis cornutus Girard. Storer, Mem. Amer. acad., 1855, vol. 5, p. 284, pl. 21, fig. 3.

ME.— Everywhere abundant. St. Johns, St. Croix and other waters in Washington County, Union, Penobscot, Kennebec, Androscoggin, Royals and Presumpscot river basins (Kendall coll.).

N. H.— Squam Lake (B. S. N. H., Storer coll.); Upper Connecticut River and Lakes (Kendall & Goldsborough coll. 1904); Upper Androscoggin River and Umbagog Lake (Kendall & Goldsborough coll. 1905).

VT.— Clyde and Passumpsic rivers (Evermann & Kendall 1894); Caspian Lake (Evermann & Kendall 1902).

MASS.— Berkshire Co. (Storer 1842, 1842, and 1844); Blanford, Hampden Co., (Olmsted 1843?); Fresh Pond, Cambridge (B. S. N. H., Van Vleck coll.); Wenham Lake; Merrimac River at Andover (Goode & Bean 1879); Quashnet River, Falmouth (Kendall coll. 1894).

R. I.— "Narragansett Bay" (R. I. Fish comm. 1899).

CONN.— "In several large streams" (Linsley 1844).

62. NOTROPIS ATHERINOIDES Rafinesque.

Silverside minnow.

Rafinesque, Amer. month. mag. and crit. rev., 1818, p. 204, "LAKE ERIE"; Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 293.

VT.— Lake Champlain, Swanton (Carter coll. 1907).

TELEOSTOMI. EVENTOGNATHI.

CYPRINIDAE.

63. NOTROPIS RUBRIFRONS (Cope).

Rednose minnow.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 295.

Alburnus rubrifrons Cope, Proc. acad. nat. sci. Phil., 1865, p. 85, "KISKIMINITAS RIVER."

Alburnellus rubrifrons Cope, Trans. Amer. Philos. soc., 1869, vol. 13, p. 388, pl. 8, fig. 3.

VT.— Lake Champlain, Swanton (Carter coll. 1907).

64. RHINICHTHYS CATARACTAE (Cuvier & Valenciennes).

Long-nose dace; Broad-nose minnow.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 306.

Gobio cataractae Cuv. & Val., Hist. nat. poissons, 1842, vol. 16, p. 315. "NIAGARA FALLS."

Argyreus nasutus Girard. Storer, Mem. Amer. acad., 1855, vol. 5, p. 289, pl. 22, fig. 1.

N. H.— Upper Connecticut River, its tributaries and Lakes (Kendall & Goldsborough 1904).

VT.— Sleeper River; Passumpsic River (Evermann & Kendall 1894).

MASS.— Blanford (Ayres 1843?); Nichols Brook (Storer 1855).

CONN.— West Hartford (Ayres 1843); Northford (Linsley 1843).

65. RHINICHTHYS ATRONASUS (Mitchill).

Black-nose dace; Brook minnow; Rock shiner, Potbelly.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 307.

Cyprinus atronasus Mitchill, Trans. lit. & philos. soc. N. Y., 1815, vol. 1, p. 460. Fresh water brooks inhabited by trout. "[WALLKILL RIVER, NEW YORK.]"

CYPRINIDAE.

Argyrius atromaculatus Heck. Storer, Mem. Amer. acad., 1855, vol. 5, p. 288, pl. 21, fig. 4.

ME.—Common everywhere especially, in brooks. Parmachenee Lake (B. S. N. H., Snow & Whittier coll.); Sebago Lake (B. S. N. H., Putnam coll.); St. Johns, St. Croix, Union, Penobscot, Kennebec, Androscoggin, Royals & Presumpscot River basins (Kendall coll.).

N. H.—Upper Connecticut River and Lakes, and their tributaries (Kendall & Goldsborough 1904).

VT.—Streams flowing into Lake Champlain (Thompson 1842); Sleeper River; Passumpsic River; Lake Memphremagog (Evermann & Kendall 1894).

MASS.—Cohasset (B. S. N. H., Bryant coll.); Chicopee River (B. S. N. H., Wheatland coll.); Williamstown (B. S. N. H., Buck and Nason coll.); "Common in brooklets everywhere in Massachusetts (Goode & Bean 1879).

R. I.—"Narragansett Bay" (R. I. Fish comm. 1899).

CONN.—"Small running streams" (Linsley 1844).

66. COLESIUS PLUMBEUS (Agassiz).

Chub-minnow.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 323.

Gobio plumbeus Agassiz, Lake Superior, 1850, p. 366. "LAKE SUPERIOR * * * LAKE HURON."

Ceratichthys prosthemius Cope, Trans. Amer. philos. soc., 1869, vol. 13, p. 367, pl. 11, fig. 4.

ME.—Common almost everywhere. Metallic Brook, Richardson Lake (B. S. N. H., Putnam? coll. 1864); St. Johns; Penobscot, Kennebec, Androscoggin, Royals and Presumpscot River basins, and many other localities (Kendall coll.); Freeport (Kendall & Smith 1894).

TELEOSTOMI. EVENTOGNATHI.

CYPRINIDAE.

N. H.— Upper Connecticut River and Lakes, and their tributaries (Kendall & Goldsborough Coll. 1904).

Vt.— Clyde River at Newport (Evermann & Kendall 1894); Caspian Lake (Evermann & Kendall 1902).

67. Hybopsis kentuckiensis (Rafinesque).

Hornyhead; Jerker; Indian chub.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 322.

Luxilus kentuckiensis Rafinesque, Ichth. Ohioensis, 1820, p. 48. "Ohio River."

Ceratichthys biguttatus Kirtland. Cope, Trans. Amer. philos. soc., 1869, vol. 13, p. 366, pl. 11, fig. 5.

Mass.— Near Woods Hole (Smith 1898)

68. Exoglossum maxillingua (LeSueur).

Cutlip; Niggerchub.

Cope, Trans. Amer. philos. soc., 1869, vol. 13, p. 360, pl. 11, fig. 1. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 327; 1900, pt. 4, pl. 54, fig. 140.

Cyprinus maxillingua LeSueur, Journ. acad. nat. sci. Phil., 1817, vol. 1, p. 85. "Pipe-Creek, Maryland."

Vt.— Lake Champlain (Evermann & Kendall 1894).

APODES.

ANGUILLIDAE.

69. Anguilla chrisypa Rafinesque.

Eel; Common eel.

Rafinesque, Amer. month. mag. & crit. rev., 1817, vol. 1, p. 120. "Lake George; Hudson River; Lake Champlain."

Anguilla bostoniensis DeKay. Storer, Mem. Amer. acad., 1863, vol. 8, p. 408, pl. 33, fig. 1.

ANGUILLIDAE.

Anguilla chrysypa Rafinesque. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 348; 1900, pt. 4, pl. 55, fig. 143.

Me.— Everywhere along the coast and in nearly all fresh waters. Eastport (B. S. N. H., Shurtleff coll.); St. Croix; Union, Eastport; Grand Lake Stream (Bean 1880); Penobscot, Kennebec, Androscoggin, Royals, and Presumpscot river basins; Eastport; Casco Bay (Kendall coll.).

N. H.— Butternut, Stocker, Eastmans, Miller, Angle, Island, Wash, Clarks, Messers, Pleasant, Suncook, Jenness, Little Bow, Harvey, Knowltons, Bagley, Long, Great, Bakers, Lime and Bartons ponds (N. H. Fish comm). Connecticut Lakes (Kendall & Goldsborough coll. 1904).

Vt.— Lake Champlain; Connecticut River; outlet of Barnards Pond (Thompson 1842).

Mass.— Boston; Boston Bay (LeSueur 1817); Medford; Watertown (Storer 1839); Holmes Hole (Storer 1863); Woods Hole (Bean 1880); Waquoit (Lyman 1872); Woods Hole (Baird 1873); Malden (B. S. N. H., Sandborn coll.); Wellesley (B. S. N. H., Denton coll.); Mystic River (B. S. N. H., Van Vleck coll.); Annisquam (B. S. N. H.); Quashnet River, Falmouth (Kendall coll. 1894); Woods Hole; Buzzards Bay (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I. Newport (LeSueur 1817); Narragansett Bay (R. I. Fish comm. 1899); Mashapaug and Fenners ponds; Pocassett River; Conimicut (Pope coll. 1894–1896) Greenwich Bay (Tracy 1906).

Conn.— Hartford; Northford (Linsley 1844); Noank (B. S. N. H., Hyatt & Rathbun coll.).

LEPTOCEPHALIDAE.

70. Leptocephalus conger (Linné).

Conger eel; Sea eel.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 354; 1900, pt. 4, pl. 57, fig. 148.

TELEOSTOMI. APODES.

LEPTOCEPHALIDAE.

Muraena conger Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 245. "Oceano Europaeo."

Leptocephalus gracilis Storer, Proc. Bost. soc. nat. hist., p. 76, 1845, vol. 2. Mem. Amer. acad., 1867, vol. 9, p. 256. [Young.]

Me.—Cherryfield (Storer 1845, 1846, and Wheatland 1852); Old Orchard (Norton coll. 1906).

Mass.—Nomans Land (Storer 1839); Nahant (Storer 1867 and B. S. N. H., Cook coll. 1858); North Truro (Kendall coll. 1896); Falmouth; Woods Hole (Baird 1873 and Smith 1898).

R. I.—Near Block Island (Mitchill 1818); Narragansett Bay (R. I. Fish comm. 1899).

MURAENIDAE.

71. Muraena retifera Goode & Bean.

Goode & Bean, Proc. U. S. nat. mus., 1882, vol. 5, 435. "Charleston, S. C." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 401; 1900, pt. 4, pl. 65, fig. 173.

Mass.—Tuckernuck Island (Smith 1900).

ISOSPONDYLI.

ELOPIDAE.

72. Tarpon atlanticus (Cuvier & Valenciennes).

Tarpon.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 409; 1900, pt. 4, pl. 67, fig. 177.

Megalops atlanticus Cuv. & Val., Hist. nat. poissons, 1846, vol. 19, p. 398. "Guadaloupe."

Mass.—South Dartmouth; Quisset; Menemsha (Smith 1898); Marthas Vineyard; Woods Hole (Sherwood & Edwards 1901).

ELOPIDAE.

R. I.— Newport (Goode 1879); Narragansett Bay; Dutch Island Harbor (Sherwood & Edwards, 1904).

73. ELOPS SAURUS Linné.

Ladyfish; Tenpounder.

Linné, Syst. nat. ed. 12, 1766, vol. 1, p. 518. "CAROLINA." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 410; 1900, pt. 4, pl. 67, fig. 178.

MASS.— Woods Hole (Baird 1873); New Bedford; Woods Hole (Bean 1880); Vineyard Sound; Buzzards Bay (Smith 1898); Nantucket (Sharp and Fowler 1904).

R. I.— Narragansett Bay (R. I. Fish Comm. 1899).

ALBULIDAE.

74. ALBULA VULPES (Linné).

Bonefish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 411; 1900, pt. 4, pl. 68, fig. 179.

Esox vulpes Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 313. "AMERICA."

MASS.— Woods Hole (Baird 1873 and Smith 1898).

R. I.— Newport (Bean 1880, Tracy 1906).

HIODONTIDAE.

75. HIODON TERGISUS LeSueur.

Mooneye.

LeSueur, Journ. acad. nat. sci. Phil., 1818, vol. 1, p. 364. "Lake Erie at Buffalo." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 413; 1900, pt. 4, pl. 68, fig. 180.

VT.— Lake Champlain (Thompson 1842).

TELEOSTOMI. ISOSPONDYLI.

CLUPEIDAE.

76. ETRUMEUS TERES (DeKay).

Round herring.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 420.

Alosa teres DeKay, N. Y. fauna, 1842, pt. 4, p. 262, pl. 40, fig. 128. "HARBOR OF NEW YORK."

MASS.— Woods Hole (Bean 1880); Menemsha Bight (Smith 1898).

R. I.— Newport (Goode 1879 and Tracy 1906).

77. CLUPEA HARENGUS Linné.

Herring; Labrador herring; English herring; Englishman; Sperling (young).

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 317. "M. EUROPAEIS." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 421; 1900, pt. 4, pl. 62, fig. 185.

Clupea elongata LeSueur. Storer, Mem. Amer. acad., 1858, vol. 6, p. 330, pl. 26, fig. 1.

ME.— Along our coast especially at Herring Gut (Williamson 1832); all along the coast, especially Passamaquoddy Bay and vicinity. (Moore 1897); Eastport (Verrill 1871; U. S. nat. mus. 1872; Bean 1880; Kendall coll. 1893); Bucksport (U. S. nat. mus. 1878); Casco Bay (Bean 1880; Lee 1885; Kendall coll.).

N. H.— ([Peck] Belknap 1792).

MASS.— Falmouth; Duxbury; Marthas Vineyard (Storer 1839); Edgartown; Massachusetts Bay; Provincetown Harbor (Storer 1859); Ipswich Bay (Bean 1880); Menemsha Bight; Monomoy; North Truro (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. Fish comm., 1899); Conimicut (Pope coll. 1894–97).

CONN.— Stratford (Linsley 1844).

CLUPEIDAE

78. Clupanodon pseudohispanicus (Poey).

Spanish sardine.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 423.

Sardinia pseudohispanica Poey, Memorias, 1860, vol. 2, p. 311. "Cuba."

Clupea pseudohispanica (Poey) Kendall & Smith, Bull. U. S. fish comm., 1894, vol. 14, p. 17.

Mass.—Woods Hole; Menemsha Bight (Kendall & Smith 1894; and Smith 1898).

79. Pomolobus mediocris (Mitchill).

Hickory shad; Hickory jack; Fresh water tailor; Fall herring.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 425; 1900, pt. 4, pl. 74, fig. 188.

Clupea mediocris Mitchill, Rept. fish. N. Y., 1814, p. 20. "That part of the bay of New York which borders on Staten Island."

Alosa linnata Storer. Storer, Mem. Amer. acad., 1858, vol. 6, p. 340, pl. 27, fig. 2.

Me.—"Mouths of Kenduskeag and other fresh rivers (Williamson (1832); Maine coast (Goode 1884); Small point, Casco Bay (Kendall coll. 1896); Freeport (Kendall coll. 1900).

Mass.—Provincetown (Storer 1847 and 1859); Waquoit (Lyman 1872); Boston Harbor (B. S. N. H., Wheildon coll.); New Bedford; Woods Hole (Bean 1880); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873 and Smith 1898) Tarpaulin Cove (Smith 1898).

R. I.—Narragansett Bay (R. I. Fish comm. 1899).

Conn.—Stratford; New Haven; Housatonic and Connecticut rivers (Linsley 1844).

TELEOSTOMI. ISOSPONDYLI.

CLUPEIDAE.

80. Pomolobus pseudoharengus (Wilson).

Alewife; Elwife; Gaspereau; Sawbelly; Kyak.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 426; 1900, pt. 4, pl. 71, fig. 189.

Clupea pseudoharengus Wilson, Ree's cyclopedia, 1811?, vol. 9, p. —.

Alosa cyanonoton Storer. Storer, Mem. Amer. acad., 1858, vol. 6, p. 339, pl. 27, fig. 1.

Me.— Common all along the coast, entering all accessible streams. Eastern, Kennebec, Sandy, East Branch of Penobscot (Me. Fish comm. 1867); Eastport U. S. Nat. Mus. 1872; (Kendall coll. 1893); Sebasticook, Sandy, East Branch of Penobscot, Dennys, Pennamaquan, Damariscotta, East Machias, Chandlers, Wescongus, Harrington, Tunk, St. Georges, Androscoggin, Saco, Mousam and Piscataqua rivers; Patten Stream; West Gouldsborough, Mt. Desert and Casco Bay (Atkins 1887); Casco Bay (Kendall coll.); western tributaries of St. John and St. Croix River (Rathbun & Wakeham 1897).

N. H.— Cobbetts Pond [land locked] (N. Wentworth coll.).

Mass.— Watertown, Taunton, Medford, pond in Manchester and Chester; Merrimac River; Mystic River (Storer 1859); Waquoit (Lyman 1872); Melrose (B. S. N. H., Van Vleck coll.); Cohasset Narrows (Bean 1880); North Truro; Monomoy (Kendall coll. 1896); Woods Hole (Smith 1898); Nantucket (Sharp and Fowler 1904).

R. I.— Narragansett Bay (R. I. Fish comm. 1899; Taunton River (Tracy 1906).

Conn.— "Common" (Linsley 1844); Noank (Bean 1880).

78. Pomolobus aestivalis (Mitchill).

Glut herring; Summer herring; Blueback; Blackbelly; Kyack.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 426; 1900, pt. 4, pl. 71, fig. 190.

CLUPEIDAE.

? *Clupea aestivalis* Mitchill, Rept. fish. N. Y., 1814, p. 21. "NEW YORK."

Alosa tyrannus DeKay. Storer, Mem. Amer. acad., 1858, vol. 6, p. 334 [in part], pl. 26, fig. 3.

ME.— Eastport (U. S. nat. mus. 1872; Kendall coll. 1893); Dennys River (Kendall 1894; Casco Bay (Lee 1885; Kendall coll.); Lower Penobscot River (Kendall coll. 1902).

N. H.—

MASS.— Sandwich (Storer 1839); Provincetown (Storer 1847 and 1858); Waquoit (Lyman 1872); Monomoy (Kendall coll. 1896); Woods Hole (Bean 1880 and Smith 1898).

82. ALOSA SAPIDISSIMA (Wilson).

Shad.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 427; 1900, pt. 4, pl. 72, fig. 191.

Clupea sapidissima Wilson, Ree's cyclopedia, 1811?, vol. 9, p.—

Alosa praestabilis DeKay. Storer, Mem. Amer. acad., 1858, vol. 6, p. 332, pl. 26, fig. 2.

ME.— In all our rivers until stopped by dams (Williamson 1832); Kennebec; Merry Meeting Bay; Cathance tributary of Kennebec; Sebasticook, Sandy, Penobscot, West Branch, Eastern rivers (Me. fish comm. 1867); Eastport (U. S. nat. mus., 1872; Kendall coll. 1893); Orland River (Merrill coll. 1899); off the coast (Kendall coll. 1895); Casco Bay (U. S. nat. mus. 1873; Bean 1880; Kendall coll.), St. Croix (Rathbun and Wakeham 1899). Kennebec; Penobscot; St. Croix; East Machias; Wescongus; Harrington; Mousam; Piscataqua rivers (Atkins 1887).

N. H.— Merrimac River (Thompson 1842);

VT.— Connecticut River at Bellows Falls (Thompson 1842).

MASS.—Charles, Merrimac and Concord rivers (Storer 1839 and 1859); Massachusetts Bay (B. S. N. H., Storer coll.); West Yar-

mouth (Lyman 1861); Waquoit (Lyman 1872); Salem Harbor (Goode & Bean 1879); New Bedford (Bean 1880); Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. Fish comm. 1899); Rumstick Point; Dutch Island Harbor; Taunton River (Tracy 1906).

CONN.— "Common" (Linsley 1844); Noank (Bean 1880).

83. OPISTHONEMA OGLINUM (Le Sueur).

Thread herring.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 432.

Megalops oglina LeSueur, Journ. acad. nat. sci. Phil., 1817, vol. 1, p. 359. "NEWPORT, R. I."

Chatoesus signifer DeKay, N. Y. fauna, 1842, pt. 4, p. 264, pl. 41.

MASS.— Buzzards Bay; Vineyard Sound (Smith 1898).

R. I.— Newport (LeSueur 1817); Narragansett Bay (R. I. Fish comm. 1899).

84 BREVOORTIA TYRANNUS (Latrobe).

Menhaden; Pogy.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 433; 1900, pt. 4, pl. 73, fig. 195.

Clupea tyrannus Latrobe, Trans. Amer. philos. soc., 1802, vol. 5, p. 77, pl. 1. "CHESAPEAKE BAY."

Alosa menhaden Storer. Storer, Mem. Amer. acad., 1858, vol. 6, p. 336, pl. 26, fig. 4.

ME.— "On our coast and up rivers as far as fresh and saltwater mix" (Williamson 1832); Mouth Penobscot River (B. S. N. H., Storer coll.); Passamaquoddy Bay; Castine; Belfast; Brookline; Cranberry Isles; Sargentville; Matinicus; New Haven; Monhegan; Damariscotta; Pemaquid; Wescongus; Booth Bay; Bristol; Round

pond; Waldoboro; Pond Island; Portland; Pine Point (Goode 1877); Casco Bay (Lee 1885; Kendall coll.; Smith 1902).

N. H.—

MASS.—Massachusetts Bay; Provincetown; Lynn; Sandwich (Storer 1859); Boston Bay (B. S. N. H., Cutting coll.); Salem (B. S. N. H., Brown coll.); Waquoit (Lyman 1872); Danvers (Goode & Bean 1879); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.—Narragansett Bay (R. I. Fish comm., 1899); Cominicut (Pope coll. 1894–97).

CONN.—Long Island Sound (Linsley 1844); Noank (Bean 1880); Saybrook (Kendall coll. 1890).

ENGRAULIDIDAE.

85. ANCHOVIA BROWNII (Gmelin).

Striped anchovy.

Atherina brownii Gmelin, Syst. nat., 1788, vol. 1, p. 1397. "JAMAICA."

Stolephorus brownii Gmelin. Jordan & Evermann, Bull. 47, U. S. nat. mus, 1896, pt. 1, p. 443.

MASS.—Woods Hole (Baird 1873 [?]; Bean 1880 and Smith 1898).

R. I.—Narragansett Bay (R. I. Fish Comm. 1899).

86. ANCHOVIA ARGYROPHANUS (Cuvier & Valenciennes).

Silvery anchovy.

Engraulis argyrophanus Cuv. & Val., Hist. nat. poissons, 1848, vol. 21, p. 49. "EQUATORIAL ATLANTIC."

Stolephorus argyrophanus Cuv. & Val. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 444.

MASS.—Woods Hole (Smith 1898).

TELEOSTOMI. ISOSPONDYLI.

ENGRAULIDIDAE.

87. ANCHOVIA MITCHILLI (Cuvier & Valenciennes).

Whitebait.

Engraulis mitchilli Cuv. & Val., Hist. nat. poiss., 1848, vol. 21, p. 50. "NEW YORK; CAROLINA; LAKE PONTCHATRAIN."

Engraulis vittata Baird & Girard. Storer, Mem. Amer. acad., 1858, vol. 6, p. 341 [?], pl. 27, fig. 3.

Stolephorus mitchilli (Cuvier & Valenciennes). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 446.

ME.— Casco Bay (Kendall coll. 1907).

MASS.— Provincetown (Storer 1859); Woods Hole (Smith 1898).

R. I.— (Tracy 1906).

SALMONIDAE.

88. COREGONUS QUADRILATERALIS Richardson.

Round whitefish; Menominee; Frostfish; Chiven; Billfish; Shadwaiter.

Richardson, Franklin journ., 1823, p. 714, pl. 25, fig. 2. "FORT ENTERPRISE, BRITISH AMERICA." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 465. Kendall, Bull. U. S. fish. comm., 1903, vol. 22, p. 365, fig.

ME.— Moosehead Lake (B. S. N. H., Davidson coll.); Clearwater pond, Industry; Umsaskis of Allagash River; Cross Lake and Square Lake of Eagle Lakes, Aroostook County (Kendall 1903); Debsconeag Lakes, Piscataquis County (Kendall coll.).

N. H.— Lake Winnepesaukee (Prescott 1851); First Connecticut Lake (N. H. Fish comm. 1892).

VT.— Lake Champlain?; Lake Memphremagog (Evermann & Kendall 1894).

89. COREGONUS CLUPEIFORMIS (Mitchill).

Whitefish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 465; 1900, pt. 4, pl. 76, fig. 202.

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SALMONIDAE

Salmo clupeiformis Mitchill, Amer. monthly mag. & crit. rev., 1818, vol. 2, p. 321. "SAULT STE MARIE."

VT.—(Storer 1842); Lake Champlain (Thompson 1842, 1853 and Evermann & Kendall 1894).

90. COREGONUS LABRADORICUS Richardson.

Whitefish; Pound-fish; Shadwaiter; Shad; Gizzard-fish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896 pt. 1, p. 466; Kendall, Bull. U. S. fish comm., 1903, vol. 22, p. 363, fig.

Salmo (Coregonus) labradoricus Richardson, Fauna Bor. Amer., 1836, vol. 3, p. 206. "MUSQUA RIVER, [LABRADOR]."

ME.—Waters of the East and West branches of the St. Croix River; Moosehead Lake; Debsconeag Lakes; lakes of the Allagash; St. Frances and Fish rivers (Kendall 1903).

N. H.—Lake Winnepesaukee (Prescott 1851).

VT.—Lake Champlain; Lake Memphremagog (Evermann & Kendall 1894).

91. COREGONUS STANLEYI Kendall.

Little whitefish; Stanleys whitefish.

Kendall, Bull. U. S. fish. comm., 1903, vol. 22, p. 366, fig. "MAINE."

ME.—Eagle Lakes, Aroostook County (Kendall 1903).

92. ARGYROSOMUS ARTEDI (LeSueur).

Cisco; Lake herring.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896 pt. 1, p. 468. Evermann & Smith, Rept. U. S. fish. comm. for 1894, 1896, p. 30, pl. 21.

Coregonus artedi LeSueur, Journ. acad. nat. sci. Phil., 1818, vol. 1, p. 231. "LAKE ERIE; NIAGARA RIVER."

Vt.— Lake Champlain (Thompson 1842); Lake Bomoseen, Rutland County; Vergennes (Evermann & Kendall 1894).

93. Salmo salar Linné.

Salmon; Sea salmon.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 308. "In Oceano Europae." Storer, Mem. Amer. acad., 1858, vol. 6, p. 320, pl. 25, fig. 2. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 486.

Me.— Kennebec River (Mitchill 1818); Affluent of Union River (Girard 1854); notably in the Penobscot; St. Croix, Dennys rivers; Penobscot Bay and neighboring coastal waters; Casco Bay (Kendall coll.).

N. H.— All along Merrimac River as far up as Woodstock dam (N. H. Fish. comm., 1878); Amoskeag Falls (N. H. Fish. comm., 1880; Merrimac River (N. H. Fish Comm. 1890).

Vt.— Lake Champlain; Connecticut River, formerly (Thompson 1842).

Mass.— Merrimac River (Storer 1839, 1859 and Agassiz 1859); Woods Hole (Baird 1873); Lawrence (N. H. Fish comm. 1878, 1879, 1880, 1883); Massachusetts rivers (Goode & Bean 1879); North Truro (Kendall coll. 1896); Buzzards Bay; Vineyard Sound (Smith 1898); off Tuckernuck, Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. Fish Comm., 1899); Sakonnet River (Tracy 1906).

Conn.— Connecticut River (Linsley 1844).

94. Salmo sebago Girard.

Landlocked Salmon; Fresh-water salmon; Blackspot trout; Salmon trout.

Girard, Proc. acad. nat. sci. Phil., 1853, p. 380. "Southern Maine."

TELEOSTOMI ISOSPONDYLI

SALMONIDAE

Salmo salar sebago Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 487.

ME.—Originally in St. Croix Lakes, Grand Lake and Grand Lake Stream, Green Lake (Reeds Pond) in Union River basin; Sebec Lake, Penobscot basin; Sebago Lake, Presumpscot basin; now widely distributed by fish cultural operations. "Sebago pond"? (Storer 1839); (Girard 1853).

95. CRISTIVOMER NAMAYCUSH Walbaum.

Great Lakes trout; Mackinaw trout; Namaycush; Lunge; Togue; Laker; Lake trout.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 504; 1900, pt. 4, pl. 82, fig. 217.

Salmo namaycush Walbaum, Artedi Pisc., 1792, p. 68. "HUDSON BAY."

ME.—Most deep lakes in eastern and northern Maine. Thompson Pond in Poland; Tunk Lakes in Hancock county; Lakes of the Upper Kennebec, Penobscot and St. Johns rivers and the St. Croix system, Wilton Pond (Me. Fish comm. 1867); Moosehead Lake (Goode 1879 and B. S. N. H., Davidson coll.); Hurd pond; Matagamon Lake; Webster, Telos, Chamberlain, Eagle, Churchill, Beau, Glasier lakes; Eagle Lakes, Aroostook County, Moosehead Lake (Kendall coll. 1901 and 1902).

N. H.—Winnepesaukee Lake; Squam Lake; East Pond in Enfield; Newfound Lake and First and Second Connecticut lakes (N. H. Fish comm. 1892); First and Second Connecticut lakes (Kendall & Goldsborough coll. 1904).

VT.—Lake Champlain; ponds in Orleans County; Bellwater pond in Barton and several ponds in Glover and Charleston (Thompson 1842); Lake Champlain; Lake Memphremagog; Caspian Lake; Dunmore; Willoughby; Maidstone (Evermann & Kendall 1894).

TELEOSTOMI. ISOSPONDYLI.

SALMONIDAE.

96. SALVELINUS FONTINALIS (Mitchill).

Trout; Brook trout; Red spot; Squaretail.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 506; 1900, pt. 4, pl. 82, fig. 218.

Salmo fontinalis Mitchill, Rept. fish. N. Y., 1814, p. 12. "NEW YORK." Storer, Mem. Amer. acad., 1858, vol. 6, p. 322, pl. 25, fig. 3.

ME.— Almost everywhere in brooks, rivers, ponds and lakes. Moosehead Lake (B. S. N. H., Hamlin coll., Davidson coll.); Belgrade Lake (B. S. N. H.).

N. H.— Pond, Monadnock Mt. (Bigelow 1849); Enfield (Storer 1859); Beaver Meadow, Fords, Mountain, Clarksville, Monadnock, Converse, Clarks, Morrills, Little, Squam, Safety, Bog, Big Dummer, Little Dummer, Garlands, Connor, Bean, Dan Hole, Pierce, Stinsons, Baptist, Trout, Boulster, Chapmans, Picket Hill, Gilman, Bear and Rocky Ponds (N. H. Fish comm.); Connecticut Lakes and vicinity (Kendall & Goldsborough coll. 1904); Umbagog Lake, Molnichwock Pond and Brook, Androscoggin River (Kendall & Goldsborough coll. 1905).

VT.— Sleeper River; tributaries of Memphremagog, Caspian Lake (Evermann & Kendall 1894 and 1898).

MASS.— Sandwich (Forsyth 1846; Storer 1839 and 1859); Waltham (B. S. N. H., Warren coll.); Quashnet River, Falmouth (Kendall coll. 1894); Woods Hole (Smith 1898).

R. I.— Narragansett Bay (R. I. Fish Comm. 1899); small streams in Foster, Scituate and Gloucester (Pope coll.).

CONN.— Housatonic (Linsley 1844); "Many Streams" (Ayres 1844).

97. SALVELINUS AGASSIZII (Garman).

Dublin Pond trout.

Salmo agassizii Garman, 19th rept. Mass. fish. comm., 1885, p. 20, fig. 17, 18. "DUBLIN POND (LAKE MONADNOCK) N. H."

SALMONIDAE.

Salvelinus fontinalis agassizi (Garman). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 597.

N. H. Monadnock Lake; Center Pond (Garman 1885; and N. H. fish comm.).

98. SALVELINUS AUREOLUS Bean.

Golden trout; White trout; Silver trout.

Bean, Proc. U. S. nat. mus., 1887, vol. 10, p. 628. "SUNAPEE LAKE, N. H."

Salvelinus alpinus aureolus (Bean). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 511; 1900, pt. 4, pl. 83, fig. 220.

ME.— Floods Pond, Otis, Hancock County (Kendall coll. 1903).

N. H.— Sunapee Lake (Bean 1887 and 1889); Danhole Pond (N. H. fish comm. 1890; Jordan & Evermann 1896).

VT.— Averill Ponds (Wentworth coll.).

99. SALVELINUS OQUASSA (Girard).

Blueback trout; Blueback.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 514; 1900, pt. 4, pl. 83, fig. 221.

Salmo oquassa Girard, Proc. Bost. soc. nat. hist., 1853, vol. 4, p. 262. "MOOSELUCMAGUNTIC LAKE * * * KENEBAGO."

ME.— Mooslucmaguntic and Oquassa lakes, Kennebago Stream (Girard 1853); Rangeley and Mooselucmaguntic (Me. fish comm., 1867); Kennebago Stream (Kendall coll. 1900); Rangeley Stream (Kendall coll. 1903 and 1904); Rainbow Lake, Piscataquis County (Garland 1903 and 1904).

TELEOSTOMI. ISOSPONDYLI.

ARGENTINIDAE.

100. OSMERUS MORDAX (Mitchill).

Smelt.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 523; 1900, pt. 4, pl. 86, fig. 228.

Atherina mordax Mitchill, Rept. fish. N. Y., 1814, p. 15, "NEW YORK."

Osmerus viridescens LeSueur. Storer, Mem. Amer. acad., 1858, vol. 6, p. 327, pl. 25, fig. 4.

ME.— Common along the whole coast. St. Croix and other Washington County Waters; Eastport; Union, Penobscot; Kennebec; Androscoggin, Presumpscot river basins, Rockland; Casco Bay (Kendall coll.); Sabattis Pond [?] (Merrill coll.); Green Lake [?] (Race coll.); Craigs Brook Craigs and Toddy ponds [?] (Atkins coll.).

N. H.—Squam and Winnepesaukee lakes (H. R. Storer 1857 and N. H. fish comm. 1870); Stocker, Long, Sandy and Smith Ponds (N. H. fish comm.).

VT.—Lake Champlain and Lake Memphremagog (Evermann & Kendall 1894).

MASS.— Jamaica Pond (H. R. Storer 1857); Watertown; Milton River (Storer 1839 and 1859); Annisquam (B. S. N. H.); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.— Narragansett Bay (R. I. fish comm. 1899); Narrow River (Tracy 1906).

CONN.— Stratford (Linsley 1844); Noank (Bean 1880).

101. OSMERUS SPECTRUM Cope.

Wilton Pond smelt.

Cope, Proc. Amer. philos. soc., 1870, vol. 11, p. 490. "WILTON POND, KENNEBEC COUNTY, MAINE."

TELEOSTOMI. ISOSPONDYLI.

ARGENTINIDAE.

Osmerus mordax spectrum (Cope). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 523.

ME.—"Wilton Pond" (Cope 1870); Wilson Pond (Stanley coll. 1904).

102. OSMERUS ABBOTTII Cope.

Cobbosseecontee smelt.

Cope, Proc. Amer. philos. soc., 1870, vol. 11, p. 490. "COBBOSSEECONTEE LAKE."

Osmerus mordax abbottii (Cope). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 524.

ME.—Cobbosseecontee Lake (Cope 1870; Stanley & Berry coll.).

103. ARGENTINA SILUS Ascanius.

Herring smelt.

Ascanius, Icon. rev. nat., 1763, fasc. 3, p. 3, pl. 24. "NORWAY." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 526.

ME.—Belfast; Biddeford pool (Goode & Bean 1880).

INIOMI.

SYNODONTIDAE.

104. TRACHINOCEPHALUS MYOPS (Forster).

Ground spearing.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 533; 1900, pt. 4, pl. 88, fig. 235.

Salmo myops Forster, Bloch & Schneider, Syst. ichth., 1801, p. 421. "ST. HELENA."

MASS.—Woods Hole (Smith 1898).

TELEOSTOMI. INIOMI.

SYNODONTIDAE.

105. SYNODUS FOETENS (Linné).

Lizzardfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 538; 1900, pt. 4, pl. 88, fig. 236.

Salmo foetens Linné, Syst. nat. ed. 12, 1766, vol. 1, p. 513. "CAROLINA."

MASS.— Woods Hole (Smith 1898).

R. I.— Narragansett Bay (R. I. fish comm., 1899).

MAUROLICIDAE.

106. MAUROLICUS PENNANTI (Walbaum).

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, vol. 1, p. 577.

Argentina pennanti Walbaum, Artedi Pisc., 1792, p. 47. "ENGLAND."

Scopelus humboldtii Cuv. Storer, Mem. Amer. acad., 1858, vol. 6, p. 328, pl. 25, fig. 5.

Maurolicus borealis Goode & Bean, Oceanic ichth., 1896, p. 96, pl. 30, fig. 111.

MASS.— Nahant (Storer 1839); Provincetown (Storer 1859); Woods Hole (Smith 1898).

HAPLOMI.

UMBRIDAE.

107. UMBRA LIMI (Kirtland).

Mud minnow; Mud fish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 623.

Hydrargyra limi Kirtland, Boston journ. nat. hist., 1841, vol. 3, p. 277, pl. 2, fig. 4. "NORTHERN OHIO."

Hydrargia atricada [!] DeKay, N. Y. fauna, 1842, pt. 4, p. 220.

TELEOSTOMI HAPLOMI.

UMBRIDAE.

VT.— Lake Champlain and tributaries (Thompson 1842); "Vermont" (DeKay 1842).

108. UMBRA PYGMAEA (DeKay).

Mud minnow.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 624; 1900, pt. 4, pl. 99, fig. 268.

Leuciscus pygmaea DeKay, N. Y. fauna, 1842, pt. 4, p. 214, pl. 42, fig. 13. "TAPPAN, ROCKLAND COUNTY, N. Y."

CONN.— [?]

ESOCIDAE.

109. ESOX AMERICANUS (Gmelin).

Banded pickerel; short-nose pickerel; Trout-nose pickerel.

Esox lucius β americanus Gmelin, Syst. nat. 1788, vol. 1, p. 1319. "LONG ISLAND, N. Y."

Esox fasciatus DeKay, N. Y. fauna, 1842, pt. 4, p. 224, pl. 34, fig. 110.

Esox ornatus Girard. Storer, Mem. Amer. acad., 1858, vol. 6, p. 313, pl. 24, fig. 2.

Lucius americanus (Gmelin). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 126.

VT.— Lake Bomosen (Ripley coll. 1905).

MASS.— Sherburne (Storer 1843); Charles River at Framingham (Girard 1854); Concord River (Thoreau 1859, Putnam 1859); Charles River at Wayland (Sprague 1859); East Lexington (B. S. N. H., Sprague coll.); Andover (B. S. N. H., Sanborn coll.); Fresh Pond, Cambridge (B. S. N. H., Van Vleck coll.); Wellesley (B. S. N. H., Denton coll.); Wenham Lake (Goode & Bean 1879).

R. I.— "Narragansett Bay" (R. I. fish comm. 1899).

CONN.— Samp-Mortar River, Fairfield (Linsley 1844).

TELEOSTOMI. HAPLOMI.

ESOCIDAE.

110. Esox reticulatus LeSueur.

Pickerel; Grass pike; Jack.

LeSueur, Journ. acad. nat. sci. Phil., 1818, vol. 1, p. 414; "Connecticut River, Adams, Mass." Storer, Mem. Amer. acad., 1858, vol. 6, p. 311, pl. 24, fig. 1.

Lucius reticulatus (LeSueur). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 627.

Me.— Now widely distributed especially in the southern half of the state. Sebago Lake and outlet (B. S. N. H., Putnam coll.); St. Croix and other Washington County waters (Kendall 1894); Union, Penobscot, Kennebec, Androscoggin, Royals and Presumpscot River basins (Kendall coll.).

N. H.— Winnipesaukee Lake (B. S. N. H., Davidson coll.); Butternut, Stocker, Eastmans, Miller, Spectacle, Angle, Island, Wash, Long, Goves, Whittaker, Upper, Cranney, Middle, Pleasant, Grassy, Clarks, Camp Swamp, Little, Squam, White-Oak, Flints, Pennichuck, Rocky, Larkins, Hinmans, Sawyers, Clay, Smiths, Clements, Rolfs, Carrs, Little Massabesic, Otternick, Cherry, Great, Country, Halfmoon, Streeter, Perch, Mink, Young, Henry, Cloughs, Crooked, Hothole, Spaldings, Cedar, Berry, Round, Pratts, Messers, Otter, Little Sunapee, Suncook, Jenness, Little Bow, Harvey, Knowltons, Duncan, Gumpars, Whites, Cunningham, Pierce, Jones, Governors, Peckus, Cass, Sandy Stinsons, Loon, Captains, Policy, Worlds End, Hunkins, Station, Star, Bow, Bolster, Gilman, Lovewells, Province, Pine River, Great East, Bagleys, Bear, Jones, Day, Bakers, Line, Cabots, Smiths, Rus:s, Beach & Sargents Ponds (N. H. fish comm.).

Vt.— Connecticut River and most of its larger tributaries (Thompson 1842); Lake Champlain; Connecticut River (Evermann & Kendall 1894).

Mass.— Connecticut River, Adams (LeSueur 1818); Brewster, Cape Cod (Storer 1839 and 1859); near Greenfield (Ayres 1843);

ESOCIDAE.

Charles River (Sprague 1855); Menham (B. S. N. H., Brown coll.); East Gloucester (B. S. N. H., Davidson coll.); Quashnet River, Falmouth (Kendall coll. 1894).

R. I.—Pocassett River, Ponegansett Reservoir, Georgiaville (Pope coll. 1895).

CONN.—Hockanum River, about 2 miles east of Hartford (Ayres 1843); Hartford (Linsley 1844).

111. ESOX LUCIUS Linné.

Pike; Pickerel.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 314. "EUROPA."

Lucius lucius (Linné). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 628; 1900, pt. 4, pl. 100, fig. 269.

VT.—Dunmore Lake, Salisbury (B. S. N. H.); Lake Champlain and Lake Memphremagog (Evermann & Kendall 1894); Lake Bomosen (Ripley coll. 1905).

112. ESOX MASQUINONGY Mitchill.

Muskalonge.

Mitchill, Mirror, 1824, p. 297. "LAKE ERIE." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 629; 1900, pt. 4, pl. 100, fig. 270.

VT.—Lamoille River (Thompson 1850 and 1853); Lake Champlain (Evermann & Kendall 1894).

FUNDULIDAE.

113. FUNDULUS MALALIS (Walbaum).

Killifish; Mayfish; Bass killy; Yellowtail.

Garman, Mem. mus. comp. zool., 1895, vol. 19, p. 104, pl. 2, fig. 5-6; pl. 9, fig. 1-8. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 639. 1900, pt. 4, pl. 101, fig. 271.

TELEOSTOMI. HAPLOMI.

POECILIIDAE.

Cobitis majalis Walbaum, Artedi Pisc., 1792, p. 12. "Long Island."

Hydargyra flavula Val. Storer, Mem. Amer. acad., 1858, vol. 6, p. 309, pl. 23, fig. 5, 6.

Mass.— Holmes Hole; near Boston (Storer 1842 and 1859); Salem (Wheatland 1859); West Yarmouth (Lyman 1861); Waquoit (Lyman 1872); South Mill Pond [?] (Goode & Bean 1879); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Conimicut (Pope coll. 1894–97).

Conn.— Noank (Goode 1879).

114. Fundulus heteroclitus (Linné).

Killifish; Mummichog; Chub; Minny. Tomcod; Cobler.

Garman, Mem. mus. comp. zoöl., 1895, vol. 19, p. 97, pl. 2, fig. 2; pl. 8, fig. 1.

Cobitis heteroclita Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 500. "Carolina."

Fundulus pisculentus Cuv. & Val. Storer, Mem. Amer. acad., 1855, vol. 5, p. 294, pl. 23, fig. 3, 4.

Fundulus nigrofasciatus Cuv. & Val. Storer, Mem. Amer. acad., 1855, vol. 5, p. 295, pl. 23, fig. 1.

Fundulus heteroclitus macrolepidotus (Walbaum). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 641.

Me.— Eastport (U. S. nat. mus. 1872 and 1892). Casco Bay (U. S. nat. mus. 1873, Bean 1880 and Lee 1885); ponds near New Meadows (Bowdoin college). Freeport (Kendall coll. 1892, 1898; 1899, 1900; 1901; 1902; 1903).

Mass.— Sandwich (LeSueur 1817); Holmes Hole, (Storer 1839); Cambridge; Boston (Storer 1855); Salem (Wheatland 1859); West Yarmouth (Lyman 1861); Waquoit (Lyman 1872);

Annisquam (B. S. N. H., Hyatt, VanVleck & Gardiner coll.); Cohasset (B. S. N. H., Bryant coll.); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Newport (LeSueur 1817); Narragansett Bay (R. I. fish comm. 1899); Conimicut (Pope coll. 1894–97).

CONN.— Long Island Sound (Linsley 1844); Noank (Goode 1879).

115. FUNDULUS DIAPHANUS (LeSueur).

Freshwater minnow; Shorefish; Flathead.

Garman, Mem. mus. comp. zoöl., 1895, vol. 19, p. 102, pl. 2, fig. 7. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 645; 1900, pt. 2, pl. 103, fig. 275.

Hydrargira diaphana LeSueur, Journ. acad. nat. sci. Phil., 1817, vol. 1, p. 130. "SARATOGA LAKE, N. Y."

Fundulus multifasciatus Cuv. & Val. Storer, Mem. Amer. acad., 1855, vol. 5, p. 296, pl. 23, fig. 2.

ME.— Boyden and Pennamaquan lakes and Grand Lake Stream (Kendall & Smith 1894); Chickawaka Lake, Rockland (Kendall coll. 1895); Craigs Pond, Lake Auburn, Cobbosseecontee Lake; Stillwater River (Merrill coll. 1899); Marranocook Lake (Berry coll. 1899); brook at Brunswick (Bowdoin college); Matagamonsis Lake (Kendall coll. 1900 and Smith 1902); Hurd ponds; Cross Lake Thoroughfare (Kendall coll. 1901); Floods pond and outlet (Kendall coll. 1902).

MASS. Concord; Lowell (Storer 1855); Fresh Pond, Cambridge (B. S. N. H., Putnam coll.); Annisquam (B. S. N. H., Hyatt, VanVleck & Gardiner coll.); Wenham Lake (Goode & Bean 1879); Quashnet River, Falmouth (Kendall coll. 1894); Woods Hole (Baird 1873; Smith 1898).

R. I.— "Narragansett Bay" (R. I. Fish Comm. 1899).

CONN.— "Common" (Linsley 1844).

TELEOSTOMI. HAPLOMI.

POECILIIDAE.

116. LUCANIA PARVA (Baird & Girard).

Rainwater fish.

Garman, Mem. mus. comp. zoöl., 1895, vol. 19, p. 93, pl. 3, fig. 3. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 665; 1900, pt. 4, pl. 109, fig. 292.

Cyprinodon parvus Baird & Girard, Rept. 9, Smithsonian inst., 1855, p. 345. "GREENPORT, LONG ISLAND."

MASS.— Woods Hole (Smith 1898).

117. CYPRINODON VARIEGATUS Lacépède.

Sheepshead minnow.

Lacépède, Hist. nat. poissons, 1803, vol. 5, p. 486. "SOUTH CAROLINA." Storer, Mem. Amer. acad., 1867, vol. 9, p. 255. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 671; 1900, pt. 4, pl. 111, fig. 296.

MASS.— West Yarmouth (Lyman 1861); Cape Cod (Storer 1867); Falmouth; Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

CONN.— "Common"; Long Island Sound (Linsley 1844); Noank (Bean 1880).

SYNENTOGNATHI.

BELONIDAE.

118. TYLOSURUS MARINUS (Walbaum).

Garfish; Silver gar; Billfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 714.

Esox marinus Walbaum, Artedi Pisc., 1792, p. 88. ——

Belone truncata LeSueur. Storer, Mem. Amer. acad., 1858, vol. 6, p. 314, pl. 24, fig. 3.

BELONIDAE

ME.—Wolfsneck, Freeport, Casco Bay (Kendall coll.).

MASS.—Holmes Hole (Storer 1839 and 1859); Vineyard Sound (B. S. N. H., Storer and Kneeland coll.); Waquoit (Lyman 1872); Great Tisbury Pond, Marthas Vineyard (B. S. N. H., Davis coll.); Monomoy (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.—Newport (LeSueur 1821); Narragansett Bay (R. I. fish comm. 1899); Wickford (Tracy 1906).

CONN.—Stratford; Hartford (Linsley 1844); Connecticut River near Hartford (Ayres 1844); Noank (Bean 1880).

119. TYLOSURUS ACUS (Lacépède).

Houndfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 716; 1900, pt. 4, pl. 116, fig. 309.

Sphyrna acus Lacépède, Hist. nat. poissons, 1803, vol. 5, p. 6, pl. 1, fig. 3. "MARTINIQUE."

MASS.—Woods Hole (Bean 1880 and Smith 1898); Buzzards Bay (Smith 1898); Nantucket (Sharp & Fowler 1904).

120. ATHERINES HIANS (Cuvier & Valenciennes).

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 718. Bull. U. S. fish comm., 1905, vol. 23, pt. 1, p. 125, fig. 40.

Belone hians Cuv. & Val., Hist. nat. poissons, 1846, vol. 18, p. 432. "HAVANA, BAHIA."

MASS.—Woods Hole (Smith 1898).

HEMIRHAMPHIDAE.

121. HYPORHAMPHUS ROBERTI (Cuvier & Valenciennes).

Halfbeak.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 721; 1900, pt. 4, pl. 117, fig. 312.

TELEOSTOMI. SYNENTOGNATHI.

HEMIRHAMPHIDAE.

Hemirhamphus roberti Cuv. & Val., Hist. nat. poissons, 1846, vol. 19, p. 24. "CAYENNE."

MASS.— Vineyard Sound: Menemsha Bight (Smith 1898).

R. I.— Newport (Cope 1870); Narragansett Bay (R. I. fish comm. 1899).

122. EULEPTORHAMPHUS VELOX Poey.

Poey, Synopsis, 1867, p. 383. "CUBA." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 724.

MASS.— Off Nantucket, (Putnam 1870).

R. I.— Newport (Goode 1879).

SCOMBERESOCIDAE.

123. SCOMBERESOX SAURUS (Walbaum).

Billfish; Needlefish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 725; 1900, pt. 4, pl. 117, fig. 314.

Esox saurus Walbaum, Artedi Pisc., 1792, p. 93. "CORNWALL."

Scomberesox storeri DeKay. Storer, Mem. Amer. acad., 1858, vol. 6, p. 315, pl. 24, fig. 4.

ME.— Monhegan (Goode & Bean 1879); Small Point, Casco Bay (Kendall coll. 1896); Old Orchard (Bowdoin college 1898).

MASS.— Cape Cod; Nantucket Shoals (Storer 1839); Provincetown (Storer 1859); Weir River, Hingham (B. S. N. H., Grütman coll.); Annisquam (B. S. N. H., Hyatt & VanVleck coll. 1879); Massachusetts Bay (Goode & Bean 1879); Cape Cod (Bean 1880); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.— Narragansett Bay (R. I. fish comm., 1899); Newport (Tracy 1906).

CONN.— Long Island Sound (Linsley 1844).

EXOCOETIDAE.

124. PARENOCOELUS MESOGASTER (Bloch).

Black-wing Flyingfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 728.

Exocoetus mesogaster Bloch, Ichthyologia 1795, pl. 399.

R. I.—Block Island (Goode 1879); Newport (Jordan & Meek 1885).

125. EXOCOETUS VOLITANS Linné.

Flyingfish.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 316. "IN ALTO PELAGO, EUROPAEO & AMERICANO" * * *. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 734; 1900, pt. 4, pl. 118, fig. 318.

MASS.—Vineyard Sound; Woods Hole (Baird 1873 and Smith 1898).

CONN.—New Haven; Stonington (Linsley 1844).

126. EXOCOETUS RONDELETII Cuvier & Valenciennes.

Flyingfish.

Cuv. & Val., Hist. nat. poissons, 1846, vol. 19, p. 115, "NAPLES; SICILY; CANARIES." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 733; 1900, pt. 4, pl. 118, fig. 317.

MASS.—Menemsha Bight (Smith 1901).

127. CYPSILURUS HETERURUS (Rafinesque).

Flyingfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2836.

TELEOSTOMI. SYNENTOGNATHI.

EXOCOETIDAE.

Exocoetus heterurus Rafinesque, Caratteri di alcuni nuovi generi, 1810, p. 58. "PALERMO." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 735.

Exocoetus noveboracensis Mitchill. DeKay, N. Y., fauna, 1842, pt. 4, p. 230, pl. 36, fig. 114.

MASS.— Woods Hole; Menemsha Bight (Smith 1900).

R. I.— Block Island (Goode 1879).

128. CYPSILURUS FURCATUS (Mitchill).

Flying-fish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, 2836.

Exocoetus furcatus Mitchill, Trans. lit. and phil. soc. N. Y., 1815, vol. 1, 149.

R. I.— Newport (Jordan & Meek 1885 and Tracy 1906).

129. CYPSILURUS GIBBIFRONS (Cuvier & Valenciennes).

Flyingfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2836.

Exocoetus gibbifrons, Cuv. & Val., Hist. nat. poissons, 1846, vol. 19, p. 118. "ATLANTIC." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 741.

R. I.— Newport (Jordan & Evermann 1896).

HEMIBRANCHI.

GASTEROSTEIDAE.

130. EUCALIA INCONSTANS (Kirtland).

Brook Stickleback.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 744.

GASTEROSTEIDAE.

Gasterosteus inconstans Kirtland, Bost. journ. nat. hist., 1841, vol. 3, p. 273, pl. 2, fig. 1. "TRUMBULL COUNTY, OHIO."

ME.—Tributary brook of Cobbosseecontee Lake (Smith 1900; Kendall 1903).

VT.—Mouth of Franklin Brook (Evermann & Kendall 1894).

131. PUNGITIUS PUNGITIUS (Linné).

Nine-spined stickleback.

Gasterosteus pungitius Linné. Syst. nat., ed. 10, 1758, vol. 1, p. 296. "EUROPA." Storer, Mem. Amer. acad., 1853, vol. 5, p. 91, pl. 8, fig. 5.

Pygosteus pungitius Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 745.

ME.—Kennebec County (Storer 1837); Eastport (U. S. nat. mus. 1872); Brunswick (Bowdoin college 1890); Grand Lake Stream (Kendall 1894); Casco Bay (Lee 1885); Freeport (Kendall coll.); Cross Lake Thoroughfare, Aroostook County (Kendall coll. 1901 and 1903); Sebois River (Kendall coll. 1902).

MASS.—Salem (Storer 1839); Salem (Wheatland 1859); Freshwater pond, Annisquam (B. S. N. H., Hyatt, Van Vleck & Gardiner coll.); Quashnet River, Falmouth (Kendall coll. 1894); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.—(Tracy 1906).

CONN.—Housatonic (Linsley 1844); Hockanum River (Ayres 1844).

132. GASTEROSTEUS ACULEATUS Linné.

Three-spined stickleback; Thornback; stickleback; Hornpout.

Linné, Syst. nat. ed. 10, 1758, vol. 1, p. 295. "EUROPA." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 747; 1900, pl. 99, fig. 320.

TELEOSTOMI. HEMIBRANCHII.

GASTEROSTEIDAE.

Gasterosteus bispinosus Walbaum. Jordan & Evermann, Bull. 47, U. S. Nat. Mus., 1896, pt. 1, p. 748.

Gasterosteus biaculeatus Mitchill. Storer, Mem. Amer. acad., 1853, vol. 5, p. 88, pl. 8, fig. 2, 3.

Me.—Eastport (U. S. nat mus. 1872; Kendall coll. 1893); Rockland (Kendall coll. 1895); Casco Bay and tributary waters (Kendall coll.); New Meadows River (Bowdoin College); Brook in Brunswick (Kendall coll. 1903).

Mass.—Provincetown; Boston (Storer 1839); Nahant; Brookline (Storer 1853); Salem (Wheatland 1859); Annisquam (B. S. N. H., Hyatt, VanVleck & Gardiner coll.); Cohasset (B. S. N. H., Bryant coll.); Malden (B. S. N. H., Sandborn coll.); Wood's Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.—Narragansett Bay (R. I. Fish Comm. 1899).

Conn.—Stratford (Linsley 1844); Noank (B. S. N. H., Hyatt & Rathbun coll.).

133. Gasterosteus atkinsii Bean.

Freshwater stickleback.

Bean, Proc. U. S. nat. mus. 1879, vol. 2, p. 67. "Schoodic Lakes, Me."

Gasterosteus bispinosus atkinsii (Bean). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 748.

Me.—Grand Lake Stream (Bean 1879); Tributary of Cobbosseecontee Lake (Kendall coll. 1899); Lake Auburn (Kendall coll. 1900); Billfish Brook, tributary Matagamon River; Matagamonsis, Webster, Telos, Chamberlain, Eagle, Churchill and Glasier, lakes; Allagash River and Cross Lake Thoroughfare (Kendall coll. 1901); Matagamon Waters (Smith 1902); Moosehead Lake (Kendall coll. 1902); Floods Pond (Kendall coll. 1903).

TELEOSTOMI. HEMIBRANCHI

GASTEROSTEIDAE.

134. GASTEROSTEUS BISPINOSUS Walbaum.

Two-spined stickleback.

Walbaum, Artedi Pisc. 1792, p. 450. "NEAR NEW YORK, HEMPSTEAD, L. I.]"

Gasterosteus wheatlandi Putnam. Storer, Mem. Amer. acad., 1867, vol. 9, p. 279.

Gasterosteus gladiuneulus Kendall. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2836.

ME.—Along the whole coast in salt and brackish water. Bay of Fundy (Bowdoin college 1891); Creek at Small Point, Casco Bay; off Monhegan Island (Kendall coll. 1896); Porters Landing, Freeport (Kendall coll. 1898; 1899, 1900 and 1903); New Meadows River (Bowdoin college 1901).

MASS.—Swampscott (M. C. Z.); Nahant (Storer 1867); Woods Hole (Smith 1898).

CONN.—Stratford [?] (Linsley 1844).

135. APELTES QUADRACUS (Mitchill).

Four-spined stickleback; Bloody stickleback.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 752; 1900, pt. 4, pl. 120, fig. 322.

Gasterosteus quadracus Mitchill, Trans. lit. & philos. soc. N. Y., 1815, vol. 1, p. 430. "NEW YORK." Storer, Mem. Amer. acad., 1853, vol. 5, p. 89, pl. 8, fig. 4.

ME.—Along the whole coast in brackish water. Eastport (U. S. nat. mus. 1872); Casco Bay (U. S. nat. mus. 1873); Chickawaka Lake and outlet, Rockland (Smith & Kendall 1896); Freeport (Kendall coll. 1898–1903).

MASS.—Salem (Storer 1839 and Wheatland 1859); from Boston to Provincetown (Storer 1853); freshwater pond, Annis-

GASTEROSTEIDAE.

quam (B. S. N. H., Hyatt, Van Vleck & Gardiner coll.); Quashnet River, Falmouth (Kendall coll. 1894); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.— Narragansett Bay (R. I. Fish Comm. 1899).

CONN.— Hartford; Stonington; Stratford (Linsley 1844); Noank (Bean 1880).

FISTULARIIDAE.

136. FISTULARIA TABACARIA Linné.

Trumpetfish.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 312. "IN AMERICA." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 757.

Fistularia serrata Bloch. Storer, Mem. Amer. acad., 1858, vol. 6, p. 318, pl. 25, fig. 1.

MASS.— Holmes Hole (Storer 1839; 1849 and 1859); Rockport (Goode & Bean 1879); Woods Hole (Goode 1879); Buzzards Bay (Smith 1898).

R. I.— Narragansett Bay (R. I. Fish Comm. 1899).

MACRORHAMPHOSIDAE.

137. MACRORHAMPHOSUS SCOLOPAX (Linné).

Snipefish.

Goode & Bean, Oceanic ichth., 1896, p. 483, pl. 117, fig. 396. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 759.

Balistes scolopax Linné, Syst. nat. ed. 10, 1758, vol. 1, p. 329. "MEDITERRANEAN."

MASS.— Provincetown (Storer 1857; Goode & Bean 1879); Massachusetts Bay (Goode & Bean 1896).

SYNGNATHIDAE.

138. SYNGNATHUS FUSCUS Storer.

Pipefish.

Storer, Report, 1839, p. 162. "NAHANT, HOLMES HOLE [MASS.]."
Siphostoma fuscum (Storer). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 770.
Syngnathus peckianus Storer, Report, 1839, p. 163, pl. 1, fig. 2, and Mem. Amer. acad., 1863, vol. 8, p. 412, pl. 33, fig. 3.

ME.—Eastport (U. S. Fish Comm. coll. 1890; Kendall coll. 1893); Casco Bay (U. S. nat. mus. 1887; Lee 1885; Bowdoin College; Kendall coll. 1898–1900); off the coast (Kendall coll. 1895).
N. H.—Piscataqua River.
MASS.—Nahant; Holmes Hole (Storer 1839); West Yarmouth (Lyman 1861); Boston Harbor (Storer 1863); Massachusetts Bay (B. S. N. H., Storer coll., Cutting coll.); Cohasset, Boston (B. S. N. H., Bryant coll., Kneeland coll.); Annisquam (B. S. N. H., Hyatt, Van Vleck & Gardiner coll.); Cape Ann; Swampscot (B. S. N. H.), Cape Cod (Storer [Putnam] 1867); Salem; Beverly Bridge (Goode & Bean 1879); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).
R. I.—Narragansett Bay (R. I. fish comm. 1899 and Pope coll.).
CONN.—Stratford (Linsley 1844); Long Island Sound, off Stratford; Bridgeport; Middle Ground; Penfield Reef (Kendall coll., 1890); off S. W. Ledge; off Branford Beacon; off Norwalk Light House (Kendall coll. 1892).

139. HIPPOCAMPUS HUDSONIUS DeKay.

Sea-horse.

DeKay, N. Y. fauna, 1842, pt. 4, p. 322, pl. 53, fig. 171. "NEW YORK." Storer, Mem. Amer. acad., 1863, vol. 8, p. 416, pl. 33, fig. 4. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 777; 1900, pt. 4, pl. 122, fig. 327.

TELEOSTOMI. LOPHOBRANCHII.

SYNGNATHIDAE.

MASS.— Holmes Hole (Storer 1839 and 1863); Provincetown. (Atwood 1850); Massachusetts Bay? (Goode & Bean 1879); Vineyard Sound (Smith 1898).

R. I.— Narragansett Bay (R. I. Fish Comm. 1899).

ACANTHOPTERI.

PERCOPSIDAE.

140. PERCOPSIS GUTTATUS Agassiz.

Trout-perch; Sand roller.

Agassiz, Lake Superior, 1850, p. 286. "LAKE SUPERIOR." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 784; 1900, pt. 4, pl. 121, fig. 329.

VT.— Lake Champlain; Winooski River (Thompson 1850 and 1853).

ATHERINIDAE.

141. MENIDIA BERYLLINA CEREA Kendall.

Waxen silverside.

Kendall, Rept. U. S. fish comm., 1901, 1902, p. 261, fig. "WOODS HOLE."

Menidia gracilis (Günther). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 797.

MASS.— Truro; Sandwich; Falmouth; Woods Hole; Wareham River; New Bedford (Kendall 1901).

R. I.— Narragansett Bay (R. I. Fish Comm. 1899).

142. MENIDIA MENIDIA NOTATA (Mitchill).

Silversides; Britt; Sand smelt; Capelin.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2840.

ATHERINIDAE.

Atherina notata Mitchill, Trans. lit. & philos. soc. N. Y., 1815, vol. 1, p. 446. "NEW YORK." Storer, Mem. Amer. acad., 1853, vol. 5, p. 165, pl. 16, fig. 1.

Menidia notata (Mitchill). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 800.

ME.—Along the whole coast. Eastport (Kendall coll. 1893); Orland (Bean 1880); Casco Bay (U. S. nat. mus. 1873; Kendall coll., 1892; 1898–1902).

N. H.—Piscataqua River (Storer 1853).

MASS.—Provincetown; Holmes Hole (Storer 1839); West Yarmouth (Lyman 1861); Charles River (Storer 1853); Annisquam (B. S. N. H., Hyatt, Van Vleck & Gardiner coll.); Gloucester (Kendall 1903); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.—Narragansett Bay (R. I. fish comm. 1899); Conimicut (Pope coll. 1894–97).

CONN.—Stratford (Linsley 1844); Noank (B. S. N. H., Hyatt & and Rathbun coll.); Bridgeport (Kendall coll., 1890).

MUGILIDAE.

143. MUGIL CEPHALUS Linné.

Striped mullet.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 316. "IN OCEANO EUROPAEO." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 811; 1900, pt. 4, pl. 126, fig. 343.

Mugil lineatus Mitchill. Storer, Mem. Amer. acad., 1853, vol. 5, p. 167, pl. 16, fig. 4.

ME.—Wolfsneck, Casco Bay (Kendall 1903 and Smith 1902).

MASS.—Provincetown (Storer 1852 and 1853); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

TELEOSTOMI. ACANTHOPTERI.

MUGILIDAE.

R. I.— Newport (Bean 1880); Narragansett Bay (R. I. fish comm. 1899).

CONN.— Stratford (Linsley 1844).

144. MUGIL CUREMA Cuvier & Valenciennes.

White mullet.

Cuv. &. Val. Hist. nat. poissons, 1836, vol. 11, p. 87. "BRAZIL; MARTINIQUE; CUBA." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 813; 1900, pt. 4, pl. 126, fig. 344.

MASS.— Woods Hole (Bean 1880 and Smith 1898).

R. I.— Narragansett Bay (R. I. fish comm., 1899).

145. MUGIL TRICHODON Poey.

Fantail mullet.

Poey, Ann. Lyc. nat. hist. N. Y., 1875, vol. 11, p. 66, pl. 8, fig. 4–6. "CUBA." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 816.

MASS.— Woods Hole (Smith 1898).

CONN.— Stonington (Linsley 1844).

SPHYRAENIDAE.

146. SPHYRAENA BARRACUDA (Walbaum).

Barracuda.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2841; 1900, pt. 4, pl. 128, fig. 349.

Esox barracuda Walbaum, Artedi Pisc., 1792, p. 94.

Sphyraena picuda Bloch & Schneider. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 823.

MASS.— Woods Hole (Smith 1898).

SPHYRAENIDAE.

147. SPHYRAENA GUACHANCHO Cuvier & Valenciennes.

Barracuda; Guaguancho.

Cuv. & Val., Hist. nat. poissons, 1829, vol. 3, p. 342. "HAVANA." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 824.

MASS.— Woods Hole (Goode & Bean 1880); Woods Hole and Buzzards Bay (Smith 1898).

R. I.— Narragansett Bay (R. I. fish comm. 1899); Willow Beach, near Wickford (Tracy 1906).

148. SPHYRAENA BOREALIS DeKay.

Northern barracuda.

DeKay, N. Y. Fauna, 1842, pt. 4, p. 37, pl. 60, fig. 196. "NEW YORK." Storer, Mem. Amer. acad., 1853, vol. 5, p. 163, pl. 12, fig. 3. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 825.

MASS.— Holmes Hole (Storer 1843 d and 1853); Marthas Vineyard (B. S. N. H., Storer coll.); Woods Hole (Bean 1880 and Smith 1898); Buzzards Bay (Smith 1898).

POLYNEMIDAE.

149. POLYDACTYLUS OCTONEMUS (Girard).

Threadfin.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 830; 1900, pt. 4, pl. 128, fig. 350.

Polynemus octonemus Girard, Proc. acad. nat. sci. Phil., 1858, p. 167. "BRAZO; SANTIAGO; GALVESTON."

MASS.— Woods Hole (Smith 1898).

AMMODYTIDAE.

150. AMMODYTES DUBIUS Reinhardt.

Sand Launce; Lant.

Reinhardt, Kong. Dansk. vid. selsk. Afh., 1838, vol. 7, p. 132.

TELEOSTOMI. ACANTHOPTERI.

AMMODYTIDAE.

"GREENLAND." Storer, Mem. Amer. acad., 1867, vol. 9, p. 281. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 832.

MASS.— Boston (Günther 1862); Woods Hole (Smith 1898).

151. AMMODYTES AMERICANUS DeKay.

Sand Launce; Lant; Sand eel.

DeKay, N. Y. Fauna, 1842, pt. 4, p. 317, pl. 52, fig. 167.—— Storer, Mem. Amer. acad., 1863, vol. 8, p. 410, pl. 33, fig. 2. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 833; 1900, pt. 4, pl. 129, fig. 351.

ME.— Eastport (Kendall coll. 1893); Small Point, Casco Bay (Kendall coll. 1896).

MASS.— Holmes Hole; Provincetown (Storer 1863); Nantucket (Bean 1880); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Gloucester (B. S. N. H., Hyatt, VanVleck and Gardiner coll.); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.— Narragansett Bay (R. I. Fish Comm. 1899).

CONN.— Long Island Sound; Stratford (Linsley 1844).

HOLOCENTRIDAE.

152. HOLOCENTRUS ASCENSIONIS (Osbeck).

Squirrelfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 849; 1900, pt. 4, pl. 131, fig. 138.

Perca ascensionis Osbeck, Iter in China, 1771, p. 388, "ASCENSION ISLAND."

MASS.— Katama Bay [?] (Bean 1899 and Smith? 1900).

R. I.— Newport (Goode 1879).

MULLIDAE.

153. MULLUS AURATUS (Jordan & Gilbert).

Surmullet.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 856; 1900, pt. 4, pl. 132, fig. 360.

Mullus barbatus auratus Jordan & Gilbert, Proc. U. S. nat. mus., 1882, vol. 5, p. 280. "PENSACOLA."

MASS.— Woods Hole (Smith 1898).

SCOMBRIDAE.

154. SCOMBER SCOMBRUS Linné.

Mackerel.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 297. "IN OCEANO ATLANTICO." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 866; 1900, pt. 4, pl. 123, fig. 363.

Scomber vernalis Mitchill. Storer, Mem. Amer. acad., 1853, vol. 5, p. 132, pl. 11, fig. 2.

ME.— All along the coast. Boon Island Ledge (Atwood 1865); Eastport (U. S. nat. mus. 1872); Casco Bay (U. S. nat. mus. 1873; Lee 1885); Kendall coll. 1892 and 1896, 1899 and 1900); off Mount Desert, Monhegan, Casco Bay and Boone Island (Kendall coll. 1895).

MASS.— Massachusetts Bay; Cape Cod; Nantucket; Vineyard Sound (Storer 1853); Boston Bay (B. S. N. H., Cutting coll.); Provincetown (Atwood 1865 and Bean 1880); Waquoit (Lyman 1872); Annisquam (B. S. N. H., Hyatt, Van Vleck and Cutting coll.); Gloucester (Bean 1880); off Gay Head; at Menemsha Bight; Monomoy; North Truro (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. fish comm. 1899 and Pope coll.);

off Block Island (Kendall coll. 1896) Sakonnet River; Newport; Block Island (Tracy 1906).

CONN.— Branford; Stratford (Linsley 1844).

155. SCOMBER JAPONICUS Houttuyn.

Chub mackerel; Hardhead; Bullseye; Spanish mackerel.

Houtuyn, Verhandl. Holl. maatsch. Haarlem, 1782, vol. 20, p. 381. "JAPAN."

Scomber dekayi Storer, Mem. Amer. acad., 1853, vol. 5, p. 130, pl. 11, fig. 1.

Scomber colias Gmelin. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 866; 1900, pt. 4, pl. 133, fig. 364.

ME.— Off Casco Bay (Bowdoin college 1893; Kendall coll. 1895); Small Point, Casco Bay (Kendall coll. 1896).

MASS.— Provincetown (Storer 1853, and Bean 1880); Lynn? (Storer 1853); off Gay Head; Monomoy (Kendall coll. 1898) Vineyard Sound (Smith 1898).

CONN.— Stratford (Linsley 1844).

156. AUXIS THAZARD (Lacépède).

Frigate mackerel.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 867; 1900, pt. 4, pl. 133, fig. 365.

Scomber thazard Lacépède, Hist. nat. poissons 1802, vol. 3, p. 9. "6° and 7° S. LATITUDE, COAST OF NEW GUINEA."

MASS.— Menemsha Bight (Smith 1898).

R. I.— Narragansett Bay (R. I. fish comm. 1899).

157. GYMNOSARDA PELAMIS (Linné).

Oceanic bonito; Striped bonito.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 868.

SCOMBRIDAE.

Scomber pelamis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 297. "IN PELAGO INTER TROPICOS."

MASS.—Provincetown; Vineyard Sound (Goode & Bean 1879); Chilmark (Goode 1879); Woods Hole (Bean 1880); Menemsha Bight (Smith 1898).

158. GYMNOSARDA ALLETERATA (Rafinesque).

Little tunny; Bonito.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 869; 1900, pt. 4, pl. 134, fig. 366.

Scomber alleterata Rafinesque, Caratteri di alcuni generi nuovi, 1810, p. 46. "PALERMO."

MASS.—Woods Hole (Baird 1873); Vineyard Sound (Smith 1898).

159. THUNNUS THYNNUS (Linné).

Tunny; Horse mackerel; Tuna.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 870.

Scomber thynnus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 297. "INTER TROPICOS IN PELAGO."

Thynnus secundo-dorsalis Storer, Mem. Amer acad., 1853, vol. 5, p. 143, pl. 12, fig. 4.

ME.—Eastport (Kendall coll. 1893).

MASS.—Kettle Island; Pigeon Cape (Storer 1839); North River, Salem (Wheatland 1852); Cape Ann; Provincetown; Massachusetts Bay (Storer 1853); Milk Island; North River, Salem; beach at Beverly (Goode & Bean 1879); Woods Hole (Baird 1873 and Smith 1898); Nantucket (Sharp & Fowler 1904).

TELEOSTOMI. ACANTHOPTERI.

SCOMBRIDAE.

160. GERMO ALALUNGA (Gmelin).

Long-finned albacore.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 871; 1900, pt. 4, pl. 134, fig. 367.

Scomber alatunga [sic] Gmelin, Syst. nat., 1788, vol. 1, p. 1330. "SARDINIA."

MASS.— Woods Hole (Smith 1898).

161. SARDA SARDA (Bloch).

Bonito; Skipjack.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 872.

Scomber sarda Bloch, Nat. ausl. fische, 1793, vol. 4, p. 44, pl. 334, "EUROPE."

Pelamys sarda Cuvier. Storer, Mem. Amer. acad., 1853, vol. 5, p. 141, pl. 11, fig. 5.

ME.— Harpswell, Casco Bay (Bowdoin college 1890).

MASS.— Holmes Hole (Storer 1839); Lynn; Nahant (Storer 1842f); Holmes Hole; Lynn (Storer 1844); Provincetown; Lynn; Marthas Vineyard (Storer 1853); Waquoit (Lyman 1872); Woods Hole (Baird 1873); Menemsha Bight (Smith 1898); Cedar Tree Neck (Sherwood & Edwards 1901); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. fish comm. 1899).

CONN.— Stonington (Linsley 1844); Noank (Bean 1880).

162. SCOMBEROMORUS MACULATUS (Mitchill).

Spanish mackerel.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 874; 1900, pt. 4, pl. 134, fig. 368.

SCOMBRIDAE.

Scomber maculatus Mitchill, Trans. lit. & philos. soc. N. Y., 1815, vol. 1, p. 426, pl. 6, fig. 8. "NEW YORK."

Cymbium maculatum, Storer, Mem. Amer. acad., 1853, vol. 5, p. 146, pl. 13, fig. 1.

ME.— Monhegan (Storer 1853).

MASS.— Lynn (Storer 1842a); Massachusetts Bay (Storer 1842c); Provincetown (Storer 1853); Woods Hole (Baird 1873); Vineyard Sound; Buzzards Bay (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. Fish Comm. 1899); Princes Neck, Newport (Tracy 1906).

CONN.— Long Island Sound (Linsley 1844).

163. SCOMBEROMORUS REGALIS (Bloch).

Kingfish; Cero.

Jordan & Evermann, Bull. U. S. nat. mus., 1896, pt. 1, p. 875; 1900, pt. 4, pl. 135, fig. 369.

Scomber regalis Bloch, Nat. ausl. fische, 1793, vol. 4, p. 38, pl. 333. "MARTINIQUE."

MASS.— Woods Hole (Baird 1873); Monomoy (Kendall coll. 1896); Vineyard Sound (Smith 1898).

R. I.— Narragansett Bay (Tracy 1906).

164. SCOMBEROMORUS CAVALLA (Cuvier).

Sierra.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 875.

Cymbium cavalla Cuvier, Regne anim., ed. 2, 1829, vol. 2, p. 200. "BRAZIL."

MASS.— Vineyard Sound (Smith 1898).

TRICHIURIDAE.

165. TRICHIURUS LEPTURUS Linné.

Scabbardfish; Cutlassfish; Hairtail.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 246. "AMERICA; CHINA"; Storer, Mem. Amer. acad., 1853, vol. 5, p. 147, pl. 12, fig. 1. Jordan & Evermann, Bull. 47, U. S. nat mus., 1896, pt. 1, p. 889; 1900, pt. 4, pl. 137, fig. 375.

ME.— Monhegan (Storer 1853).

MASS.— (Storer 1842); Buzzards Bay (Storer 1842f); Massachusetts Bay (Storer 1845); Lynn; Provincetown (Storer 1853); Wellfleet; Salem Harbor (Goode & Bean 1879); Woods Hole (Goode 1879); Menemsha Bight (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Newport (Sherwood & Edwards 1901); Narragansett Bay (R. I. fish comm. 1899).

ISTIOPHORIDAE.

166. ISTIOPHORUS NIGRICANS (Lacépède).

Sailfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 891; 1900, pt. 4, pl. 137, fig. 376.

Makaira nigricans Lacépède, Hist. nat. poissons 1802, vol. 4, p. 688. "ROCHELLE."

MASS.— Woods Hole (Baird 1873 and Smith 1898).

R. I.— Newport (Goode 1884).

167. TETRAPTERUS IMPERATOR (Bloch & Schneider).

Spearfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 892.

TELEOSTOMI ACANTHOPTERI

ISTIOPHORIDAE

Xiphias imperator Bloch & Schneider, Syst. ichth., 1801, p. 93, pl. 21. "MEDITERRANEAN."

MASS.—Woods Hole (Baird 1873); Vineyard Sound; Buzzards Bay (Smith 1898).

R. I.—Narragansett Bay (R. I. fish comm. 1899).

XIPHIIDAE.

168. XIPHIAS GLADIUS Linné.

Swordfish.

Linné, Syst. nat. ed. 10, 1758, vol. 1, p. 248. "EUROPA." Storer, Mem. Amer. acad., 1853, vol. 5, p. 149, pl. 13, fig. 2; Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 894.

ME.—Off Mt. Desert (Williamson 1832); off Portland (Goode 1884); Casco Bay (B. S. N. H., Davidson coll.).

MASS.—Marthas Vineyard; Gay Head; off Nantucket (Storer 1853); Woods Hole (Baird 1873); off Nomans Land (Goode 1879); Vineyard Sound (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.—Narragansett Bay (R. I. fish comm. 1899).

CONN.—New Haven (Linsley 1844); Block Island; off Sakonnet Point (Tracy 1905).

CARANGIDAE.

169. OLIGOPLITES SAURUS (Bloch & Schneider).

Leather Jacket.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 898; 1900, pt. 4, pl. 138, fig. 378.

Scomber saurus Bloch & Schneider, Syst. ichth., 1801, p. 321. "JAMAICA."

MASS.— Menemsha Bight; Woods Hole (Smith 1898).
R. I.— Newport (Goode 1884).

170. NAUCRATES DUCTOR (Linné).

Pilotfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 900; 1900, pt. 4, pl. 139, fig. 379.
Gasterosteus ductor Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 295. "IN PELAGO."

ME.— Near Seguin (Bowdoin college).
MASS.— Provincetown? (Atwood 1859); Woods Hole (Smith 1898).
R. I.— Narragansett Bay (R. I. fish comm. 1899).
CONN.— Stonington (Linsley 1844).

171. SERIOLA ZONATA (Mitchill).

Rudderfish; Shark pilot.

Storer, Mem. Amer. acad., 1853, vol. 5, p. 157, pl. 15, fig. 5. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 902; 1900, pt. 4, pl. 139, fig. 381.
Scomber zonatus Mitchill, Trans. lit. & philos. soc. N. Y., 1815, vol. 1, p. 427. "BAY OF NEW YORK."

MASS.— Wellfleet (Storer 1844a and 1853); Provincetown (Storer 1850); Beverly; North River, Salem (Goode & Bean 1879); Woods Hole; New Bedford (Bean 1880); Vineyard Sound Woods Hole (Baird 1873; Smith 1898); Nantucket (Sharp & Fowler 1904).
R. I.— Newport (Bean 1880); Narragansett Bay (R. I. Fish Comm. 1899).
CONN.— Long Island Sound (Linsley 1844).

CARANGIDAE.

172. SERIOLA LALANDI Cuvier & Valenciennes.

Amber Jack.

Cuvier & Valenciennes, Hist. nat. poissons, 1833, vol. 9, p. 208. "BRAZIL." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 903; 1900, pt. 4, pl. 140, fig. 382.

MASS.— Woods Hole (Smith 1898).
R. I.— Narragansett Bay (R. I. fish comm. 1899).

173. SERIOLA DUMERILI (Risso).

Amber Jack.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 903.
Caranx dumerili Risso, Ichthyol. Nice, 1810, p. 175, pl. 6, fig. 20. "NICE."

MASS.— Woods Hole (Smith & Kendall 1896 and Smith 1898).

174. DECAPTERUS PUNCTATUS (Agassiz).

Scad; Round robin; Cigarfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 907.
Caranx punctatus Agassiz, Spix Pisc. Bras., 1829, p. 108, pl. 56a fig. 2. "BRAZIL."

MASS.— Woods Hole (Baird 1873; Bean 1880 and Smith 1898).
R. I.— Narragansett Bay (R. I. fish comm. 1899).
CONN.— East Haven (Linsley 1844).

175. DECAPTERUS MACARELLUS (Cuvier & Valenciennes).

Mackerel Scad.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 909; 1900, pt. 4, pl. 140, fig. 383.
Caranx macarellus Cuv. & Val., Hist. nat. poissons, 1833, vol. 9, p. 40. "MARTINIQUE."

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CARANGIDAE.

MASS.— Woods Hole (Baird 1873 and Smith 1898); Vineyard Sound (Smith 1898).

R. I.— Newport (Goode 1879); Narragansett Bay (R. I. fish comm. 1899).

176. TRACHURUS TRACHURUS (Linné).

Saurel.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 910; 1900, pt. 4, pl. 140, fig. 384.

Scomber trachurus Linné Syst. nat., ed. 10, 1758, p. 298. "IN MEDITERRANEO."

R. I.— Newport (Goode 1882).

177. TRACHUROPS CRUMENOPTHALMUS (Bloch).

Big-eyed Scad; Goggle-eye.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 911; 1900, pt. 4, pl. 141, fig. 385.

Scomber crumenopthalmus Bloch, Nat. ausl. fische, 1793, vol. 4, p. 77, pl. 343. "ACARA IN GUINEA."

MASS.— Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.— Newport (Bean 1880); Narragansett Bay (R. I. fish comm. 1899).

178. CARANGUS BARTHOLOMAEI (Cuvier & Valenciennes).

Yellow Jack.

Caranx bartholomaei Cuv. & Val., Hist. nat. poissons, 1833, vol 9, p. 100. "SAINT BARTHÉLEMI." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 919.

MASS.— Woods Hole (Smith 1898).

CARANGIDAE.

179. CARANGUS HIPPOS (Linné).

Crevalle.

Scomber hippos Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 494. "CAROLINA."

Caranx hippos (Linné). Jordan & Evermann, Bull. 47 U. S., nat. mus., 1896, pt. 1, p. 920; 1900, pt. 4, pl. 141, fig. 387.

MASS.—Lynn Beach (Wheatland 1852 and Goode & Bean 1879); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.—Newport (Bean 1880).

180. CARANGUS CRYSOS (Mitchill).

Hardtail; Runner.

Scomber crysos Mitchill, Trans. lit. & philos. soc. N. Y., 1815, vol. 1, p. 424. "NEW YORK."

Caranx chrysos Cuv. Storer, Mem. Amer. acad., 1853, vol. 5, p. 153, pl. 14, fig. 1.

Caranx crysos (Mitchill). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 921.

MASS.—Boston (Storer 1843) Charleston (Storer 1853); Ipswich Bay (B. S. N. H., Hyatt & Van Vleck coll.); Provincetown; off Gloucester (Goode & Bean 1879); Woods Hole (Baird 1873 and Bean 1880); Buzzards Bay (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.—Newport (Bean 1880); near Saunders own, Narragansett Bay (Tracy 1906).

181. ALECTIS CILIARIS (Bloch).

Thread fish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 931.

TELEOSTOMI. ACANTHOPTERI.

CARANGIDAE.

Zeus ciliaris Bloch, Nat. ausl. fische, 1787, vol. 2, p. 236, pl. 29. "East Indies."

Mass.— Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.— Newport (Bean 1880); Narragansett Bay (R. I. fish comm. 1900).

Conn.— Stratford (Linsley 1844).

182. Vomer setapinnis (Mitchill).

Moonfish; Horsefish; Bluntnose; Shiner.

Zeus setapinnis Mitchill, Trans. lit. & philos. soc. N. Y., 1815, vol. 1, p. 384, pl. 1, fig. 9. "New York."

Argyreiosus unimaculatus Batchelder. Storer. Mem. Amer. acad., 1853, vol. 5, p. 156, pl. 14, fig. 2.

Vomer setipinnis (Mitchill). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 934; 1900, pt. 4, pl. 144, fig. 392.

Me.— Saco (Batchelder 1845); Casco Bay (B. S. N. H.).

Mass.— Near South Boston (Storer 1853); Danvers; North River, Salem; Gloucester (Goode & Bean 1879) [?]; Woods Hole (Baird 1873 and Bean 1880); Vineyard Sound; Buzzards Bay (Smith 1898).

R. I.— Newport (Cope 1870 and Bean 1880); Narragansett Bay (R. I. fish comm. 1899).

Conn.— Greenwich (Linsley 1844).

183. Selene vomer (Linné).

Moonfish; Horsehead; Lookdown.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 936; 1900, pt. 4, pl. 144, fig. 393, pl. 145, fig. 393 a.

Zeus vomer Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 266. "America."

Argyreiosus capillaris DeKay. Storer, Mem. Amer. acad., 1853, vol. 5, p. 155, pl. 14, fig. 3.

CARANGIDAE.

ME.—Casco Bay (Bowdoin college 1880; U. S. nat. mus. 1887).

MASS.—New Bedford (Storer 1843 and 1853); Woods Hole (Smith 1898); Nantucket (Sharp & Fowler 1904); Dorchester (B. S. N. H., Hersey coll.).

R. I.—Narragansett Bay (R. I. fish comm. 1899).

CONN.—Stratford (Linsley 1844); Long Island Sound Middleground (Kendall coll. 1890).

184. CHLOROSCOMBRUS CHRYSURUS (Linné).

Bumper; Yellowtail.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 938; 1900, pt. 4, pl. 145, fig. 394.

Scomber chrysurus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 494. "IN CAROLINA."

MASS.—Cape Cod?

185. TRACHINOTUS FALCATUS (Linné).

Round pompano.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 941; 1900, pt. 4, pl. 146, fig. 396.

Labrus falcatus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 284. "IN AMERICA."

MASS.—Woods Hole (Baird 1873 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.—Narragansett Bay (R. I. fish comm. 1899).

186. TRACHINOTUS GOODEI Jordan & Evermann.

Permit.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 943. "WEST INDIES, NORTH TO WEST FLORIDA."

MASS.—Woods Hole, young (Smith 1898).

TELEOSTOMI. ACANTHOPTERI.

CARANGIDAE.

187. TRACHINOTUS ARGENTEUS Cuvier & Valenciennes.

Silvery pompano.

Cuvier & Valenciennes, Hist. nat. poissons, 1831, vol. 8, p. 413. "NEW YORK AND RIO JANEIRO." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 944.

MASS.— Woods Hole (Smith 1898).

188. TRACHINOTUS CAROLINUS (Linné).

Pompano.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 944; 1900, pt. 4, pl. 147, fig. 398.

Gasterosteus carolinus Linné, Syst. nat., ed. 12, 1766, vol. 1, pt. 1, p. 490. "IN CAROLINA."

MASS.— Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Noank (B. S. N. H., Hyatt & Rathbun coll.).

POMATOMIDAE.

189. POMATOMUS SALTATRIX (Linné).

Bluefish; Horse-mackerel.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 946; 1900, pt. 4, pl. 148, fig. 400.

Perca saltatrix Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 293. "CAROLINA."

Temnodon saltator Cuv. Storer, Mem. Amer. acad., 1853, vol. 5, p. 159, pl. 15, fig. 1.

ME.— Casco Bay (U. S. nat. mus. 1873); Portland; Booth Bay; Kennebec River (Boardman & Atkins 1875); off Seguin (U. S. nat. mus. 1879); Small Point, Casco Bay (Kendall coll. 1896); Harraseeket River, Casco Bay, [young] (Smith 1902).

POMATOMIDAE

MASS.—New Bedford, and Holmes Hole (Storer 1839); Lynn (Storer 1842); Nahant (Jackson 1847); Buzzards Bay; Vineyard Sound; Nantucket; Massachusetts Bay (Storer 1853); Waquoit (Lyman 1872); Hingham (B. S. N. H.); Menemsha Bight (Bean 1880); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Muskeget River; Great Point Rip and Bass Rip, off Sankaty Head (Sharp & Fowler 1904).

R. I.—Narragansett Bay (R. I. fish comm. 1899) Newport (Tracy 1906).

CONN.—"Very common" (Linsley 1844); Noank (Bean 1880); off Branford Beacon (Kendall coll. 1892).

RACHYCENTRIDAE

190. RACHYCENTRON CANADUS (Linné).

Crabeater; Bonito.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 948; 1900, pt. 4, pl. 148, fig. 401.

Gasterosteus canadus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 491. "IN CAROLINA."

MASS.—Woods Hole (Baird 1873); Buzzards Bay (Smith 1898).

CONN.—Mouth of the Housatonic (Linsley 1844).

CORYPHAENIDAE

191. CORYPHAENA HIPPURUS Linné.

Dolphin.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 261. "IN PELAGO." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 952; 1900, pt. 4, pl. 149, fig. 402.

MASS.—Vineyard Sound (Smith 1898).

CONN.—Noank (Goode 1879).

TELEOSTOMI. ACANTHOPTERI.

LAMPRIDAE.

192. LAMPRIS REGIUS (Bonnaterre).

Moonfish.

Goode & Bean Oceanic ichth., 1896, p. 223, fig.

Zeus regius Bonnaterre, Ichth., 1788, p. 72, pl. 39, fig. 155.

Lampris luna (Gmelin). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 954.

ME.— (Goode & Bean 1896).

CENTROLOPHIDAE.

193. CENTROLOPHUS NIGER (Gmelin).

Blackfish; Black ruff.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 963; 1900, pt. 4, pl. 149, fig. 403.

Perca nigra Gmelin, Syst. nat., 1788, vol. 1, p. 1321. "CORNWALL."

MASS.— Dennis (Smith 1898).

194. PALINURICHTHYS PERCIFORMIS (Mitchill).

Rudderfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 964.

Coryphaena perciformis Mitchill, Amer. month. mag. & crit. rev., 1818, vol. 2, p. 244. "NEW YORK HARBOR." [?]

Palinurus perciformis DeKay. Storer, Mem. Amer. acad., 1853, vol. 5, p. 152, pl. 13, fig. 3.

ME.— (Gill 1873; Jordan & Evermann 1896).

MASS.— Holmes Hole (Storer 1842); Boston Harbor (Storer 1846); Holmes Hole; Boston (Storer 1853); Gay Head (B. S.

CENTROLOPHIDAE.

N. H., Crosby coll.); Salem (Goode & Bean 1879); off Nomans Land, Marthas Vineyard (Goode 1879); Gloucester (Bean 1880); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Annisquam (B. S. N. H., 1880); Nantucket (Sharpe & Fowler 1904).

STROMATEIDAE.

195. GOBIOMORUS GRONOVII (Gmelin).

Portuguese Man of War Fish.

Gobius gronovii Gmelin, Syst. nat., 1788, vol. 1, p. 1205. "TROPICAL AMERICA."

Nomeus gronovii (Gmelin). Goode & Bean, Oceanic ichth., 1896, p. 220, pl. 63, fig. 227. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 949.

MASS.—Woods Hole (Smith 1898).

R. I.—Narragansett Bay (R. I. fish comm. 1899).

196. PEPRILUS PARU (Linné).

Harvest fish; Pappyfish; Starfish.

Stromateus paru Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 248. "IN AMERICA."

Rhombus paru Linné. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 965; 1900, pt. 4, pl. 150, fig. 404.

MASS.—Woods Hole (Smith 1898); Monomoy (Kendall coll. 1896).

R. I.—Narragansett Bay (R. I. fish comm. 1899).

197. PORONOTUS TRIACANTHUS (Peck).

Butterfish; Dollarfish; Skip jack; Sheepshead.

Stromateus triacanthus Peck, Mem. Amer. acad., 1804, vol. 2, p. 48, pl. 2, fig. 2. "PISCATAQUA RIVER, N. H."

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STROMATEIDAE.

Rhombus triacanthus DeKay. Storer, Mem. Amer. acad., 1853, vol. 5, p. 162, pl. 15, fig. 4.

Rhombus triacanthus (Peck). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 967; 1900, pt. 4, pl. 151, fig. 405.

Me.— Eastport (U. S. nat. mus. 1872 and Bean 1880); off Seguin (U. S. nat. mus. 1879); Casco Bay (U. S. nat. mus. 1887 and Bean 1880); Small Point, Casco Bay (Kendall coll. 1896).

N. H.— Piscataqua River (Peck 1804).

Mass.— Provincetown; Boston (Storer 1853); Massachusetts Bay (B. S. N. H., Putnam coll.); Waquoit (Lyman 1872); Salem Harbor (Goode & Bean 1879); Woods Hole; Gloucester (Bean 1880); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873 and Smith 1898); Naushon (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. Fish Comm. 1899).

Conn.— Stratford (Linsley 1844); Noank (Bean 1880); off Stratford (Kendall coll. 1890); off Faulkners Island; off Branford Beacon (Kendall coll. 1892).

TETRAGONURIDAE.

198. Tetragonurus cuvieri Risso.

Squaretail.

Risso, Ichthyol. Nice, 1810, p. 387. "Nice." Jordan & Evermann; Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 976; 1900, pt. 4, pl. 152, fig. 411.

Mass.— Woods Hole (Goode & Bean 1896; Smith 1898).

CENTRARCHIDAE.

199. Amploplites rupestris (Rafinesque).

Rock Bass.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 990; 1900, pt. 4, pl. 156, fig. 419.

CENTRARCHIDAE.

Bodianus rupestris Rafinesque, Amer. month. mag. & crit. rev., 1817, vol. 1, p. 120. "LAKES OF NEW YORK, VERMONT AND CANADA."

VT.—(Storer 1842); Lake Champlain (Thompson 1842); Lake Bomoseen (Evermann & Kendall 1894).

200. ENNEACANTHUS OBESUS (Girard).

Banded Sunfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 993.

Pomotis obesus Girard, Proc. Bost. soc. nat., 1854, vol. 5, p. 40; "FRESH WATERS ABOUT HINGHAM [MASS.] AND IN A BRANCH OF THE CHARLES RIVER AT HOLLISTON."

Bryttus obesus Girard. Storer, Mem. Amer. acad., 1867, vol. 9, p. 254.

MASS.—Hingham; Holliston (Girard 1854); Concord (Thoreau 1859; Putnam 1859); Cambridge; Malden (Storer 1867); Menhan Lake; Danvers; Beverly (Goode & Bean 1879).

201. LEPOMIS AURITUS (Linné).

Longeared Sunfish; Red Sunfish; Roach.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1001; 1900, pt. 4, pl. 169, fig. 425.

Labrus auritus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 283. "IN PHILADELPHIA."

Pomotis appendix DeKay. Storer, Mem. Amer. acad., 1853, vol. 5, p. 62, pl. 3, fig. 4.

ME.—Thompson Pond (Bowdoin college); Craigs Pond; Pushaw Pond; Toddy Pond; Alamoosook Lake (Merrill coll. 1899). Cobbosseecontee Lake; Lake Auburn; Ambajejus Falls;

First and Second Hurd ponds; Fourth Debsconeag Lake; Pokwokamus Deadwater, West Branch of Penobscot; Hale Pond; Bowlin Pond; Green Lake; Branch Pond; Floods Pond (Kendall coll.).

VT.— Connecticut River at Barnet (Thompson 1842); Lake Champlain, Bridgeport (B. S. N. H., Putnam coll.).

MASS.— Concord River (Storer 1842a, 1842f and 1853); Ipswich River, Ipswich, (B. S. N. H.); Menham Pond and other waters in Essex County (Goode & Bean 1879).

R. I.— "Narragansett Bay (R. I. fish comm. 1899).

CONN.— Bridgeport; Hartford (Linsley 1844).

202. EUPOMOTIS GIBBOSUS (Linné).

Sunfish; Flatfish; Roach; Hogback; Kiver.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1009; 1900, pt. 4, pl. 161, fig. 429.

Perca gibbosa Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 292. "IN AMERICA."

Pomotis vulgaris Cuv. Storer, Mem. Amer. acad., 1853, vol. 5, p. 60, pl. 3, fig. 1.

ME.— Presumpscot River (B. S. N. H., Putnam coll.); Grand Lake Stream (U. S. nat. mus. 1877); Boyden Lake; Pennamquan Lake and River, Dennys River; Leweys Lake; St. Croix River; Maguerrowock Stream (Kendall 1894); Chickawaka Lake, Rockland (Kendall coll. 1895); Sebago and Little Sebago lakes and Songo River (Kendall coll. 1898); Androscoggin River and Lake Auburn (Merrill coll. 1899); Pettengills Pond, North Windham; Thomas Pond, South Casco; Cobbosseecontee Lake (Kendall coll. 1899).

N. H.—

VT.— Lake Champlain (Thompson 1842) Dunmore Lake, Salisbury (B. S. N. H.).

MASS.— (Storer 1839 and 1853); pond near Plymouth (Jackson

1852); "Ponds of the County" (Putnam 1856); Quashnet River, Falmouth (Kendall coll. 1894); near Woods Hole (Smith 1898).

R. I.—"Narragansett Bay" (R. I. fish comm. 1899); Mashapaug, Benedict & Fenners ponds (Pope coll. 1894–96).

CONN.—"Common" (Linsley 1844).

203. MICROPTERUS DOLOMIEU Lacépède.

Smallmouth Black-bass; Black-bass.

Lacépède, Hist. nat. poissons, 1802, vol. 4, p. 325. —. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1011; 1900, pt. 4, pl. 162, fig. 430.

ME.—Introduced; now widely distributed in southern half of state, from Cumberland to Washington Co.

N. H.—Introduced; now widely distributed. Winnipesaukee Lake (B. S. N. H., Davidson coll.).

VT.—Lake Champlain (Thompson 1842).

MASS.—Introduced; widely distributed. Great Sand Lake, Wareham; Massachusetts Bay (Storer 1867); Wellesley (B. S. N. H., Denton coll.); Quashnet River, Falmouth (Kendall coll. 1894).

R. I.—Introduced; now common.

CONN.—Introduced?; Housatonic (Linsley 1844).

204. MICROPTERUS SALMOIDES (Lacépède).

Largemouth Black-bass.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1012; 1900, pt. 4, pl. 163, fig. 431.

Labrus salmoides Lacépède, Hist. nat. poissons, 1802, vol. 4, p. 716. "SOUTH CAROLINA."

ME.—Lately introduced into Lower Kimball Pond, Fryeburg and Range Ponds, Poland.

N. H.—Introduced?

VT.—?

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CENTRARCHIDAE.

MASS.— Introduced; Quashnet River, Falmouth (Kendall coll. 1894); near Woods Hole (Smith 1898); Wellesley (B. S. N. H. Denton coll.).

R. I.— Introduced; "Narragansett Bay" (R. I. fish comm. 1899).

PERCIDAE.

205. STIZOSTEDION VITREUM (Mitchill).

Pike Perch; Wall-eyed Pike.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1021; 1900, pt. 4, pl. 164, fig. 433.

Perca vitrea Mitchill, Amer. month. mag. & crit. rev., 1818, vol. 2, p. 247. "CAYUGA LAKE, N. Y."

VT.— Lake Champlain (Thompson 1842); Winooski and Lamoille rivers (Evermann & Kendall 1894).

206. STIZOSTEDION CANADENSE (Smith).

Sauger; Sand pike.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1022; 1900, pt. 4, pl. 164, fig. 434.

Lucioperca canadensis C. H. Smith, Griffith's Cuvier Regne anim., 1834, vol. 10, p. 275, pl. 7. "CANADA."

VT.— Lake Champlain (Thompson 1853).

207. PERCA FLAVESCENS (Mitchill).

Perch; Yellow perch; Ring perch; Coon perch; Brindle perch.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1023; 1900, pt. 4, pl. 165, fig. 435.

Morone flavescens Mitchill, Rept. fish. N. Y., 1814, p. 18. "NEAR NEW YORK CITY."

PERCIDAE

Perca flavescens Cuv. Storer, Mem. Amer. acad., 1853, vol. 5, p. 52, pl. 2, fig. 1.

ME.— Thompson Pond (Bowdoin college); Grand Lake Stream; Meddybemps Lake, etc. (Kendall 1894); Songo and Presumpscot rivers; Sebago and Little Sebago lakes; Pettengill, Panther, Rattle snake, Thomas, and Hurd ponds; Cobbosseecontee and Marranocook lakes; Matagamon River and Matagamonsis Lake; Ambajejus Falls; Second and Fourth Debsconeag lakes; Pokwokamus Deadwater; Beau Lake (Kendall coll.).

N. H.— Abundant in southern half of state; Pond near Monadnock Mt. (Bigelow 1849); Lake Winnipesaukee (B. S. N. H., Putnam coll.).

VT.— Common; Lake Champlain (Thompson 1842); Clyde River near Newport Missisquoi Bay (Evermann & Kendall 1894); Swanton (Carter coll. 1907).

MASS.— Concord River (Storer 1842c and 1842f); Fresh Pond, Cambridge (Storer 1842f); common everywhere (Storer 1853); "Ponds of the County" (Putnam 1856); Salem (Wheatland 1859); Idlewood Lake Menham (B. S. N. H., Warren coll. & Brown coll.); Orleans, Cape Cod (Davidson coll.); abundant everywhere (Goode & Bean 1879); Quashnet River, Falmouth (Kendall coll. 1894); near Woods Hole (Smith 1898).

R. I.— Benedict, Fenners, Mashapaug ponds; Pocassett River; Ponegansett Resevoir (Pope coll. 1898).

CONN.— Hockanum River, Hartford (Ayres 1843).

208. PERCINA CAPRODES (Rafinesque).

Log perch; Hogmolly.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1026; 1900, pt. 4, pl. 165, fig. 436.

Sciena caprodes Rafinesque, Amer. month. mag. & crit. rev., 1818, vol. 1, p. 354. "OHIO RIVER."

VT.— Lake Champlain (Thompson 1842).

TELEOSTOMI. ACANTHOPTERI.

PERCIDAE.

209. COTTOGASTER COPELANDI (Jordan).

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1045.

Rheocrypta copelandi Jordan, Bull. 10, U. S. nat. mus., 1877, p. 9. "WHITE RIVER, INDIANA."

VT.— Lake Champlain (Thompson 1853).

210. BOLEOSOMA OLMSTEDI (Storer).

Tessellated darter.

Storer, Mem. Amer. acad., 1853, vol. 5, p. 78, pl. 4, fig. 4.

Etheostoma olmstedi Storer, Bost. journ. nat. hist., 1842 (1844), vol. 4, p. 61, pl. 5, fig. 2. "HARTFORD, CONNECTICUT."

Boleosoma nigrum olmstedi (Storer). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1057; 1900, pt. 4, pl. 171, fig. 451.

MASS.— "Western portion of the state" (Storer 1853); Charles River (B. S. N. H., Baird coll.) New Salem (B. S. N. H., Trask coll.); Quashnet River, Falmouth (Kendall coll. 1894); near Woods Hole (Smith 1898).

R. I.— "Narragansett Bay" (R. I. Fish Comm. 1899).

CONN.— Hartford (Storer 1842); in nearly all freshwater streams (Linsley 1844).

211. BOLEICHTHYS FUSIFORMIS (Girard).

Redside darter.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1101; 1900, pt. 4, pl. 177, fig. 469.

Boleosoma fusiforme Girard, Proc. Bost. soc. nat. hist., 1854, vol. 5, p. 41. "CHARLES RIVER NEAR FRAMINGHAM, MASS."

Hololepis fusiformis Girard. Storer, Mem. Amer. acad., 1867, vol. 9, p. 256.

PERCIDAE.

Mass.—Charles River (Girard 1854); a small brook tributary to Melrose Pond, Melrose (B. S. N. H., Putnam coll.), Framingham; Essex County and elsewhere (Storer 1867); Brook of Melrose Pond; Menham Lake, Newhall Crossing (Goode & Bean 1879); Waltham (B. S. N. H., Warren coll.).

CHEILODIPTERIDAE.

212. Apogon imberbis (Linné).

King of the mullets.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1107.

Mullus imberbis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 300. "in Melita."

R. I.—Newport (Cope 1870).

213. Apogon maculatus (Poey).

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1109.

Monoprion maculatus Poey, Memorias, 1860, vol. 2, p. 123. "Cuba."

Mass.—Katama Bay (Smith 1898).

R. I.—Newport (Cope 1870).

SERRANIDAE.

214. Roccus lineatus (Bloch).

Striped bass; Rock; Rockfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1132; 1900, pt. 4, pl. 180, fig. 478.

Sciaena lineata Bloch, Nat. ausl. fische, 1792, vol. 3, p. 62, pl. 304. "Mediterranean Sea."

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SERRANIDAE.

Labrax lineatus Cuv. Storer, Mem. Amer. acad., 1853, vol. 5, p. 54, pl. 1, fig. 4.

Me. Kenduskeag (Williamson 1832); coast (B. S. N. H., Davidson coll.); Merrymeeting Bay; Saco, Kennebec, Eastern and Sebasticook rivers (Me. fish. comm. 1867); Sheepscot, Dyer, St. Croix and Piscataqua rivers; Winnegance Creek; Casco Bay (Atkins 1887). Wolfsneck, and Small Point, Casco Bay (Kendall coll. 1896).

N. H.— (Storer 1853).

Mass.— Chelsea; Nantasket; Boston (Storer 1839); Provincetown; Charles River; Buzzards Bay (Storer 1853); Massachusetts Bay (B. S. N. H., Cutting coll.); "Harbors of the County" (Putnam 1856); Waquoit (Lyman 1872); Essex County rivers (Goode & Bean 1879); Holyoke (Bean 1880); Monomoy (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. fish comm. 1899); Taunton River (Tracy 1906).

Conn.— Connecticut River to above Hartford; Stonington (Linsley 1844).

215. Morone americana (Gmelin).

White perch.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1134; 1900, pt. 4, pl. 181, fig. 479.

Perca americana Gmelin, Syst. nat., 1788, vol. 1, p. 1308. "New York."

Labrax rufus DeKay, Storer, Mem. Amer. acad., 1853, vol. 5, p. 57, pl. 1, fig. 1.

Me.— Lakes emptying into Kennebec River as far back as Skowhegan; into Penobscot River still further north; and in lakes of the St. Croix and intervening territory (Me. fish comm. 1867);

Grand Lake Stream (U. S. nat. mus. 1877); Eastport and Freeport (Kendall coll. 1893); Sysladobsis, Big, Leweys and Meddybemps lakes (Kendall 1894); Pushaw and Cogehnewagn ponds (Merrill coll. 1899); Sebago and Little Sebago lakes (Kendall coll. 1898, 1899 and 1900); Cobbosseecontee Lake (Kendall coll. 1899); Harraseeket River (Smith 1902).

N. H.— Wheelrights Pond (N. H. fish comm. 1877).

Mass.— Mouths of rivers, and ponds near Boston (Storer 1853 "Ponds of the county and occasionally in salt water" (Putnam 1850); Woods Hole (Baird 1873); Floating Bridge Pond, Salem; Flax Pond, Lynn (Goode & Bean 1879); Idlewood Lake, Wenham (B. S. N. H., Brown coll.); Nantucket, and Brewster, Cape Cod (B. S. N. H., Ordway coll.); Fresh Pond, Cambridge (B. S. N. H., Van Vleck coll.); Buzzards Bay and Vineyard Sound (Bean 1880 and Smith 1898).

R. I.— Narragansett Bay (R. I. Fish Comm. 1899); Mashapaug and Benedict ponds (Pope coll. 1888–1896).

Conn.— Stratford (Linsley 1844); Noank (Bean 1880).

216. Epinephelus adscensionis (Osbeck).

Rock hind.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1,.p. 1152; 1900, pt. 4, pl. 182, fig. 482.

Trachinus adscensionis Osbeck, Voyage to China, 1771, vol. 2, p. 95. "Ascension Island."

Mass.— Katama Bay [young] (Smith 1900).

217. Epinephelus niveatus (Cuvier & Valenciennes).

Spotted grouper; Snowy grouper.

Boulenger, Cat. fish. Brit. mus., ed. 2, 1895, p. 226, pl. 3, fig. 3. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1156.

TELEOSTOMI. ACANTHOPTERI.

SERRANIDAE.

Serranus niveatus Cuv. & Val., hist. nat. poissons, 1828, vol. 2, p. 380. "BRAZIL."

MASS.— Woods Hole (Smith & Kendall 1894; Smith 1898).

R. I.— Newport (Gill 1861 and Cope 1870); Tiverton; Point Judith (U. S. nat. mus.——); Narragansett Bay (R. I. fish comm. 1899).

218. EPINEPHELUS MORIO (Cuvier & Valenciennes).

Red grouper.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1160; 1900, pt. 4, pl. 184, fig. 485.

Serranus morio Cuv. & Val., Hist. nat. poissons, 1828, vol. 2, p. 285. "NEW YORK AND SAN DOMINGO."

MASS.— Katama Bay [young] (Smith 1898).

219. GARRUPA NIGRITA (Holbrook).

Black Grouper.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1161; 1900, pt. 4, pl. 184, fig. 486.

Serranus nigritus Holbrook, Ichth. South Carolina, 1856, p. 173, pl. 25, fig. 11. "CHARLESTON, S. C."

MASS.— Katama Bay [young] (Smith 1900).

220. MYCTEROPERCA BONACI (Poey).

Black Grouper.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1174; 1900, pt. 4, pl. 187, fig. 492.

Serranus bonaci Poey, Memorias, 1860, vol. 2, p. 129. "CUBA."

MASS.— Katama Bay [young] (Smith 1900).

SERRANIDAE.

221. MYCTEROPERCA INTERSTITIALIS (Poey).

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1178.

Serranus interstitialis Poey, Memorias, 1860, vol. 2, p. 127. "CUBA."

MASS.—Katama Bay [?] (Smith 1900).

222. CENTROPRISTES STRIATUS (Linné).

Sea Bass; Black Sea Bass.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1199; 1900, pt. 4, pl. 190, fig. 500.

Labrus striatus Linné, Syst. nat., 1758, ed. 10, vol. 1, p. 285. "IN AMERICA."

Centropristes varius Storer. Storer, Mem. Amer. acad., 1853, vol. 5, p. 58, pl. 2, fig. 4.

ME.—Matinicus Island (B. S. N. H., Arethusa coll.); Wood Island, Casco Bay (Smith & Kendall 1896).

MASS.—Holmes Hole (Storer 1839); Holmes Hole; Gay Head; New Bedford; Massachusetts Bay; Nahant (Storer 1853); Salem Harbor; Nahant (Putnam 1856); Beverly Bar (Wheatland 1860); Cohasset Narrows (Bean 1880); Waquoit (Lyman 1872); Nantucket Sound; Buzzards Bay (Collins & Rathbun 1887); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.—Narragansett Bay (R. I. fish comm. 1899).

CONN.—Noank (Bean 1880); off Bridgeport; off Stratford; the Middle Ground (Kendall coll. 1890); off Faulkners Island (Kendall coll. 1892).

TELEOSTOMI. ACANTHOPTERI.

SERRANIDAE.

223. Rypticus bistrispinus (Mitchill).

Soapfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1233; 1900, pt. 4, pl. 194, fig. 509.

Bodianus bistrispinus Mitchill, Amer. month. mag. & crit. rev., 1818, vol. 2, p. 247. "Straits of Bahama."

R. I.— Newport (Cope, 1870).

LOBOTIDAE.

224. Lobotes surinamensis (Bloch).

Flasher; Trippletail.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1235; 1900, pt. 4, pl. 194, fig. 510.

Holocentrus surinamensis Bloch, Nat. ausl. fische, 1790, vol. 3, p. 98, pl. 243. "Surinam."

Mass.— Woods Hole (Baird 1873 and Smith 1898); Menemsha Bight (Smith 1898).

R. I.— Narragansett Bay; off Pine Hill (R. I. fish comm. 1899); Prudence Island (Sherwood & Edwards 1901); near Saunderstown (Tracy 1906).

PRIACANTHIDAE.

225. Priacanthus arenatus Cuvier & Valenciennes.

Catalufa; Bigeye.

Cuv. & Val., Hist. nat. poissons, 1829, vol. 3, p. 101. "Brazil." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1237; 1900, pt. 4, pl. 195, fig. 511.

Mass.— Woods Hole; Quisset Harbor (Smith 1898).

R. I.— Newport (Jordan & Evermann 1896).

LOBOTIDAE.

226. PSEUDOPRIACANTHUS ALTUS (Gill).

Bigeye.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 1, p. 1239; 1900, pt. 4, pl. 195, fig. 512.

Priacanthus altus Gill, Proc. acad. nat. sci. Phil., 1862, p. 132, "NARRAGANSETT BAY AT CANANICUT FERRY, R. I." Storer, Mem. Amer. acad., 1867, vol. 9, p. 254.

MASS.—Marblehead Beach (Storer 1867); Woods Hole; Acushnet River, New Bedford [young] (Smith 1898).

R. I.—Cananicut Ferry (Gill 1862); Newport (Cope 1870).

LUTIANIDAE.

227. LUTIANUS GRISEUS (Linné).

Gray snapper; Mangrove snapper.

Labrus griseus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 283. "IN AMERICA."

Neomaenis griseus (Linné). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1255.

MASS.—Woods Hole [young] (Smith 1898).

R. I.—Newport (Tracy 1906).

228. LUTIANUS JOCU (Bloch & Schneider).

Dog snapper.

Anthias jocu Bloch & Schn., Syst. ichth., 1801, p. 310. "CUBA."

Neomaenis jocu (Bloch & Schn). Jordan & Evermann, Bull. U. S. nat. mus. 1898, pt. 2, p. 1257.

MASS.—Woods Hole [young] (Smith 1898).

229. LUTIANUS APODUS (Walbaum).

Schoolmaster.

? *Perca apodus* Walbaum, Artedi Pisc., 1792, p. 351. "BAHAMAS."

LUTIANIDAE.

Neomaenis apodus (Walbaum). Jordan & Evermann, Bull. 47, U. S. nat. mus. 1898, pt. 2, p. 1258; 1900, pt. 4, pl. 197, fig. 515.

MASS.— Woods Hole, [young] (Smith 1898).

230. LUTIANUS BLACKFORDII Goode & Bean.

Red snapper.

Goode & Bean, Proc. U. S. nat. mus., 1878, vol. 1, p. 176. "PENSACOLA, FLA."

Neomaenis aya (Bloch). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1264; 1900, pt. 4, pl. 197, fig. 516.

MASS.— Menemsha Bight [young] (Smith 1898).

231. LUTIANUS ANALIS (Cuvier & Valenciennes).

Muttonfish.

Mesoprion analis Cuv. & Val., Hist. nat. poiss., 1828, vol. 2, p. 452. "SANTO DOMINGO."

Neomaenis analis (Cuv. & Val.). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1265; 1900, pt. 4, pl. 198, fig. 517.

MASS.— Woods Hole [young] (Smith 1898).

232. OCYURUS CHRYSURUS (Bloch).

Yellowtail.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1275; 1900, pt. 4, pl. 199, fig. 520.

Sparus chrysurus Bloch, Ichth. Nat. ausl. fische, 1790, vol. 3, p. 28, pl. 262. "BRAZIL."

MASS.— Katama Bay [young] (Smith 1901).

TELEOSTOMI ACANTHOPTERI

SPARIDAE.

233. STENOTOMUS CHRYSOPS (Linné).

Scup; Porgy.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1346; 1900, pt. 4, pl. 211, fig. 544.

Sparus chrysops Linné, Syst. nat., ed. 12, 1766, vol. 1, pt. 1, p. 471. "IN CAROLINA."

Pagrus argyrops Cuv. Storer, Mem. Amer. acad., 1853, vol. 5, p. 127, pl. 10, fig. 4.

ME.—Eastport (U. S. nat. mus., 1872); Casco Bay (Smith & Kendall 1896).

MASS.—Buzzards Bay; Vineyard Sound; Holmes Hole; Wellfleet; Sandwich; Boston; Nahant (Storer 1839 and 1853); Waquoit (Lyman 1872); Swampscot (B. S. N. H., Phillips coll.); Buzzards Bay (B. S. N. H., Davidson coll.); Nantucket Sound; Buzzards Bay (Collins & Rathbun 1887); Milk Island (Goode & Bean 1879; Cohasset Narrows (Bean 1880); Thatchers Island (Goode 1884); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp and Fowler 1904).

R. I.—Narragansett Bay (R. I. fish comm. 1899 and Pope coll.); Taunton River; Newport; Block Island (Tracy 1906).

CONN.—Bridgeport; New Haven (Linsley 1844); off Bridgeport; off Stratford; Middleground (Kendall coll. 1890); off Faulkners Island (Kendall coll. 1892).

234. LAGODON RHOMBOIDES (Linné).

Pinfish; Sailors choice; Bream.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1358; 1900, pt. 4, pl. 215, fig. 552.

Sparus rhomboides Linné, Syst. nat., ed. 12, 1766, vol. 1, pt. 1, p. 470. "IN AMERICA."

MASS.—Woods Hole (Smith 1898).

TELEOSTOMI. ACANTHOPTERI.

SPARIDAE.

R. I.— Narragansett Bay (R. I. Fish Comm. 1899); Newport (Tracy 1906).

235. Archosargus probatocephalus (Walbaum).

Sheepshead.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1361; 1900, pt. 4, pl. 216, fig. 554.

Sparus probatocephalus Walbaum, Artedi Pisc., 1792, p. 295. "New York."

Sargus ovis Cuv. Storer, Mem. Amer. acad., 1853, vol. 5, p. 126, pl. 10, fig. 1.

Mass.— South of Cape Cod (Storer 1839 and 1853); Vineyard Sound (Smith 1898); Woods Hole (B. S. N. H., Denton coll.).

R. I.— Narragansett Bay (R. I. fish comm. 1899); Newport (Tracy 1906).

Conn.— Stratford (Linsley 1844).

GERRIDAE.

236. Eucinostomus gula (Cuvier & Valenciennes).

Silver jenny.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 464. 1370.

Gerres gula Cuv. & Val., Hist. nat. poissons, 1830, vol. 6, p. 464. "Martinique."

Mass.— Woods Hole [young] (Smith 1898).

KYPHOSIDAE.

237. Kyphosus sectatrix (Linné).

Chub; Sailors choice.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1387; 1900, pt. 4, pl. 219, fig. 559.

TELEOSTOMI ACANTHOPTERI.

KYPHOSIDAE.

Perca sectatrix Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 486. "IN AMERICA."

MASS.—Woods Hole (Baird 1873 and Smith 1898).

R. I.—Newport (Goode 1879).

SCIAENIDAE.

238. CYNOSCION REGALIS (Bloch & Schneider).

Weakfish; Squeteagne; Sea trout.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1407; 1900, pt. 4, pl. 220, fig. 562.

Johnius regalis Bloch & Schn., Syst. ichth., 1801, p. 75. "NEW YORK."

Otolithus regalis Cuv. Storer, Mem. Amer. acad., 1853, vol. 5, p. 122, pl. 9, fig. 1.

ME.—(Holmes 1862).

MASS.—Massachusetts Bay (B. S. N. H., Storer coll.); Nantucket; Marthas Vineyard; Provincetown (Storer 1839 and 1853); Waquoit (Lyman 1872); Milk Island, Cape Ann (Goode & Bean 1879); Woods Hole (Baird 1873 and Bean 1880); Monomoy; Menemsha Bight (Kendall coll. 1896); Buzzards Bay (Smith 1898); Nantucket (Sharp and Fowler 1900).

R. I.—Narragansett Bay (R. I. fish comm. 1899); Conimicut (Pope coll. 1894–99); Providence River; off Block Island (Tracy 1906).

CONN.—Mouth of Housatonic (Linsley 1844); off Bridgeport; off Stratford; Middle Ground [young] (Kendall coll. 1890); off Norwalk Light House; off Branford Beacon (Kendall coll. 1892).

SCIAENIDAE.

239. LARIMUS FASCIATUS Holbrook.

Holbrook, Ichth. South Carolina, 1856, p. 153, pl. 22, fig. 1.

SCIAENIDAE.

"CHARLESTON." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1424.

MASS.— Buzzards Bay (Smith 1898).

240. SCIAENOPS OCELLATUS (Linné).

Red drum; Channel bass.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1453; 1900, pt. 4, pl. 222, fig. 567.

Perca ocellata Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 483. "IN CAROLINA."

MASS.— Buzzards Bay (Smith 1898).

241. LEIOSTOMUS XANTHURUS Lacépède.

Spot.

Lacépède, Hist. nat. poissons, 1802, vol. 4, p. 439, pl. 10, fig. 00. "CAROLINA." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1458; 1900, pt. 4, pl. 223, fig. 569.

MASS.— Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.— Narragansett Bay (R. I. fish comm. 1899); Newport (Tracy 1906).

CONN.— Branford (Linsley 1844).

242. MICROPOGON UNDULATUS (Linné).

Croaker.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1461; 1900, pt. 4, pl. 224, fig. 570.

Perca undulata Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 483. "IN CAROLINA."

MASS.— Buzzards Bay (Smith 1898).

SCIAENIDAE.

243. MENTICIRRHUS SAXATILIS (Bloch & Schneider).

Kingfish; Whiting; Sea mullet.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1475.

Johnius saxatilis Bloch & Schn., Syst. ichth., 1801, p. 75. "NEW YORK."

Umbrina nebulosa Storer. Storer, Mem. Amer. acad., 1853, vol. 5, p. 124, pl. 9, fig. 4.

ME.—Casco Bay (Lee 1885 and Bowdoin college).

MASS.—Nahant; Lynn (Storer 1842); Boston Light House; Lynn; Provincetown (Storer 1853); Waquoit (Lyman 1872); Marblehead Light; Spite Bridge, Danvers (Goode & Bean 1879); Cohasset Narrows (Bean 1880); North Truro; Monomoy (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharpe & Fowler 1904).

R. I.—Narragansett Bay (R. I. fish comm. 1899).

CONN.—Stratford (Linsley 1844); Noank (Bean 1880).

244. POGONIAS CROMIS (Linné).

Drum; Black drum.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1482; 1900, pt. 4, pl. 225, fig. 573.

Labrus cromis Linné, Syst., nat., ed. 12, 1766, vol. 1, p. 479. "IN CAROLINA."

MASS.—Provincetown (Goode & Bean 1879; Mystic River (B. S. N. H., Cutter coll.); Woods Hole (Smith 1898).

R. I.—Narragansett Bay (R. I. fish comm. 1899).

CONN.—Stratford (Linsley 1844).

245. APLODONOTUS GRUNNIENS Rafinesque.

Freshwater drum; Sheepshead.

Rafinesque, Journ. de phys., 1819, p. 88. "OHIO RIVER."

SCIAENIDAE.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1484; 1900, pt. 4, pl. 226, pl. 574.

VT.— (Storer 1842); Lake Champlain (Thompson 1842).

POMACENTRIDAE.

246. EUPOMACENTRUS LEUCOSTICTUS (Müller & Troschel).

Cocky pilot.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1555.

Pomacentrus leucostictus Müller & Trosch., Schomburgk's Hist. Barbados, 1848, p. 674. "BARBADOS."

MASS.— Katama Bay (Smith 1900).

247. ABUDEFDUF SAXATILIS (Linné).

Cocky pilot.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1561; 1900, pt. 4, pl. 234, fig. 590.

Chaetodon saxatilis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 276. "IN INDIA."

R. I.— Newport (Cope 1870).

LABRIDAE.

248. TAUTOGOLABRUS ADSPERSUS (Walbaum).

Chogset; Cunner; Nipper; Wharffish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1577; 1900, pt. 4, pl. 236, fig. 505.

Labrus adspersus Walbaum, Artedi Pisc., 1792, p. 254. "NEW YORK."

LABRIDAE.

Ctenolabrus ceruleus DeKay. Storer, Mem. Amer. acad., 1855, vol. 5, p. 274, pl. 21, fig. 1.

ME.— Casco Bay (U. S. nat. mus. 1873; Lee 1885; Kendall coll. 1892, 1896; 1898; 1900, 1902; 1903); Portland (Bean 1880).

MASS.— Entire coast (Storer 1839 and 1855); Massachusetts Bay (B. S. N. H., Storer coll.); Annisquam (B. S. N. H., Arethusa coll.); Orleans, Cape Cod (B. S. N. H., Davidson coll.); Waquoit (Lyman 1872); Salem (Goode & Bean 1879); Provincetown (Bean 1880); Gloucester (Bean 1880 and Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Gay Head; Cuttyhunk (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. fish comm. 1899); Conimicut (Pope coll. 1894–99).

CONN.— "Common" (Linsley 1844); Noank (Bean 1880); off Stratford (Kendall coll. 1890); off Faulkners Island (Kendall coll. 1892).

249. TAUTOGA ONITIS (Linné).

Tautog; Blackfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1578; 1900, pt. 4, pl. 237, fig. 596.

Labrus onitis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 286.

Tautoga americana DeKay. Storer, Mem. Amer. acad., 1855, vol. 5, p. 276, pl. 20, fig. 2.

ME.— Casco Bay (Lee 1885); Small Point, Casco Bay (Kendall coll. 1896); Orrs Island, Casco Bay (Kendall coll. 1900); mouth Harrasecket River (Kendall coll. 1901); Freeport (Kendall coll. 1903); Penobscot River and Bay (Evermann 1903).

MASS.— Plymouth; Nahant; Lynn; Boston; Wellfleet; Rochester Harbor (Storer 1855); Waquoit (Lyman 1872); Massa-

chusetts Bay (Bean 1880); Gloucester (B. S. N. H., Davidson coll.); Nantucket Sound; Vineyard Sound; Buzzards Bay (Collins & Rathbun 1887); Monomoy; Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. fish comm. 1899); off Conimicut Light (Pope coll. 1897–99); Pawtucket (Tracy 1906).

Conn.— Middle Ground; off Stratford; off Bridgeport; Stonington (Linsley 1844); Noank (Bean 1880).

SCARIDAE.

250. Sparisoma flavescens (Bloch & Schneider).

Mud parrot.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1639.

Scarus flavescens Bloch & Schn., Syst. ichth., 1801, p. 290. "Cuba."

Mass.— Woods Hole (Smith 1901).

251. Scarus croicensis Bloch.

Bullon.

Bloch, Nat. ausl. fische, vol. 3, p. 27, 1790, pl. 221. "St. Croix." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1650.

Mass.— Katama Bay (Smith 1901).

ZEIDAE.

252. Zenopsis ocellatus (Storer).

John dory.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1660; 1900, pt. 4, pl. 246, fig. 618.

TELEOSTOMI. ACANTHOPTERI.

ZEIDAE.

Zeus ocellatus Storer, Proc. Bost. soc. nat. hist., 1858, vol. 6, p. 386. "PROVINCETOWN, MASS."

MASS.—Provincetown (Storer 1858a).

EPHIPPIDAE.

253. CHAETODIPTERUS FABER (Broussonet).

Spadefish; Porgy.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1668; 1900, pt. 4, pl. 247, fig. 619.

Chaetodon faber Broussonet, Ichth., 1782, pt. 5, pl. 4. "JAMAICA."

MASS.—Woods Hole (Smith 1898).

R. I.—Narragansett Bay (Tracy 1906).

CHAETODONTIDAE.

254. CHAETODON OCELLATUS Bloch.

Butterflyfish.

Bloch. Nat. ausl. fische, 1787, vol. 2, p. 105, pl. 211, fig. 2.——. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1674; 1900, pt. 4, pl. 249, fig. 621.

MASS.—Woods Hole (Smith 1898).

R. I.—Newport (Gill 1861 and Cope 1870).

255. CHAETODON CAPISTRATUS Linné.

Butterfly.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 1758. "IN INDIIS." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1677; 1900, pt. 4, pl. 250, fig. 622.

MASS.—Woods Hole; Quisset Harbor (Smith 1898); Katama Bay (Smith 1901).

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TEUTHIDIDAE.

256. TEUTHIS CAERULEUS (Bloch & Schneider).

Blue tang.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1691.

Acanthurus caeruleus Bloch & Schn., Syst. ichth., 1801, p. 214. "CAROLINA; HAVANA."

MASS.— Katama Bay [young], (Smith 1900).

257. TEUTHIS HEPATUS Linné.

Tang.

Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 507. "IN CAROLINA, AMBOINA." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1991.

MASS.— Katama Bay [young] (Smith 1900).

258. TEUTHIS BAHIANUS (Castelnau).

Ocean tang.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1693; 1900, pt. 4, pl. 256, fig. 629.

Acanthurus bahianus Castelnau, Anim. nouv. ou rares de l'Amer. du Sud, 1855, p. 241, pl. 11, fig. 1. "BAHIA."

MASS.— Katama Bay [young], (Smith 1900).

BALISTIDAE.

259. BALISTES CAROLINENSIS Gmelin.

Triggerfish.

Gmelin, Syst. nat., 1788, vol. 1, p. 1468. "CAROLINA." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1701; 1900, pt. 4, pl. 258, fig. 632.

BALISTIDAE.

MASS.—Squam River, Annisquam (B. S. N. H., Hyatt coll.); New Bedford (Luce 1883); Woods Hole (Smith 1898).

R. I.—Newport (Bean 1880); Narragansett Bay (R. I. fish comm. 1899); Wickford (B. S. N. H., Lewis coll.); West Passage; Connanicut Island (Tracy 1906).

260. BALISTES FORCIPATUS Gmelin.

Triggerfish.

Gmelin, Syst. nat., 1788, vol. 1, p. 1472. 'BRAZIL.' Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1702.

R. I.—Newport (Cope 1870); Narragansett Bay (R. I. fish comm. 1899).

261. BALISTES VETULA Linné.

Oldwife; Bessy corker.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 329. "IN INSULAM ASCENSIONIS." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1703.

MASS.—Woods Hole (Baird 1873 and Smith 1898 [young]); Nantucket (Sharp & Fowler 1904).

262. CANTHIDERMIS SOBACO Poey.

Sabaco.

Poey, Memorias, 1860, vol. 2, p. 324. "HAVANA." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1705.

MASS.—Vineyard Sound (Smith 1898).

MONACANTHIDAE.

263. MONACANTHUS CILIATUS (Mitchill).

Filefish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1714; 1900, pt. 4, pl. 259, fig. 634.

MONACANTHIDAE.

Balistes ciliatus Mitchill, Amer. month. mag. & crit. rev., 1818, vol. 2, p. 326. "BAHAMA STRAITS."

Monacanthus massachusettensis Storer. Storer, Mem. Amer. acad., 1863, vol. 8, p. 425, pl. 34, fig. 4.

MASS.— Massachusetts Bay (Storer 1839 and 1863).

264. MONACANTHUS HISPIDUS (Linné).

Filefish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1715; 1900, pt. 4, pl. 259, fig. 635.

Balistes hispidus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 405. "CAROLINA."

Monacanthus signifer Storer. Storer, Mem. Amer. acad., 1863, vol. 8, p. 426, pl. 35, fig. 1.

MASS.— Lynn and Nantucket (Storer 1843a); Hingham; Lynn; Nahant; Boston Harbor (Storer 1863); Marthas Vineyard (B. S. N. H., Hyatt coll.); Cape Cod (Goode 1879); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.— Newport (Bean 1880); Narragansett Bay (R. I. fish comm. 1899).

CONN.— Stonington (Linsley 1844).

265. ALUTERA SCHOEPFII (Walbaum).

Foolfish; Turbot; Hogfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1718; 1900, pt. 4, pl. 260, fig. 636.

Balistes schoepfii Walbaum, Artedi Pisc., 1792, p. 461. "LONG ISLAND."

Monacanthus auranticus DeKay. Storer, Mem. Amer. acad., 1863, vol. 8, p. 423, pl. 34, fig. 3.

ME.— Portland (Storer 1845, 1848 and 1863).

MASS.— Holmes Hole (Storer 1839); Salem (Storer 1845, and

MONACANTHIDAE.

1863); Forest River Lead Works, Salem (Wheatland 1852 and Goode & Bean 1879); Menemsha Bight (Bean 1880); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.—Newport (Bean 1880); Goose Neck (Tracy 1906).

CONN.—Long Island Sound; Stratford; Stonington (Linsley 1844).

266. ALUTERA MONOCEROS (Linné).

Liza barbula.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1720. Smith, Bull. U. S. fish comm., 1899, vol. 18, p. 273, pl. 64.

Balistes monocerros Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 327. "ASIA."

MASS.—Woods Hole (Smith 1899).

OSTRACIDAE.

267. LACTOPHRYS TRIQUETER (Linné).

Rock shellfish; Trunkfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1722; 1900, pt. 4, pl. 261, fig. 638.

Ostracion triqueter Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 330. "IN INDIA."

MASS.—Katama Bay (Smith 1900).

268. LACTOPHRYS TRIGONUS (Linné).

Trunkfish; Shellfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1723; 1900, pt. 4, pl. 263, fig. 641.

Ostracion trigonus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 330. "IN INDIA."

OSTRACIIDAE.

Lactophrys yalei DeKay. Storer, Mem. Amer. acad., 1863, vol. 8, p. 429, pl. 35, fig. 3.

MASS.— Marthas Vineyard (Storer 1837, 1839, 1863); Holmes Hole (B. S. N. H.); Woods Hole (Smith 1898).

R. I.— Narragansett Bay (R. I. fish comm. 1899).

269. LACTOPHRYS TRICORNIS (Linné).

Cowfish; Toro.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1724; 1900, pt. 4, pl. 261, fig. 639.

Ostracion tricornis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 331. "IN INDIA."

MASS.— Katama Bay (Smith 1900).

TETRAODONTIDAE.

270. LAGOCEPHALUS LAEVIGATUS Linné.

Rabbitfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1728; 1900, pt. 4, pl. 268, fig. 642.

Tetrodon laevigatus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 411. "IN CAROLINA." Storer, Mem. Amer. acad. 1863, vol. 8, p. 418, pl. 39, fig. 1.

MASS.— Nantucket (Storer 1842 and 1842); Woods Hole (Baird 1873); Buzzards Bay (Smith 1898; Vineyard Sound (Smith 1898).

R. I.— Narragansett Bay; Tiverton; Newport (R. I. fish comm. 1899).

CONN.— Long Island Sound (Linsley 1844).

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TETRAODONTIDAE

271. SPHEROIDES SPENGLERI (Bloch).

Swelltoad; Tambor.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1732; 1900, pt. 4, pl. 264, fig. 644.

Tetraodon spengleri Bloch, Nat. ausl. fische, 1785, vol. 2, p. 135, pl. 144. "EAST INDIES."

MASS.—Woods Hole (Smith 1898).

272. SPHEROIDES MACULATUS (Bloch & Schneider).

Swellfish; Puffer; Swelltoad; Baloonfish; Bellowsfish.

Jordan & Evermann Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1733; 1900, pt. 4, pl. 264, fig. 645.

Tetraodon hispidus var. *maculatus* Bloch & Schn., Syst. ichth., 1801, p. 504. "LONG ISLAND."

Tetraodon turgidus Mitchill. Storer, Mem. Amer. acad. 1863, vol. 8, p. 417, pl. 33, fig. 5.

ME.—Small Point, Casco Bay (Smith & Kendall 1896).

MASS.—Boston, Holmes Hole (Storer 1839); Nahant; Manemsha Creek (Storer 1863); Massachusetts Bay (B. S. N. H., Storer coll.); Salem Harbor (Wheatland 1852); Provincetown (Goode & Bean 1879); Cohasset Narrows (Bean 1880); North Truro; Monomoy (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.—Narragansett Bay (R. I. fish comm. 1899).

CONN.—"Very common" (Linsley 1844); Noank (Bean 1880); off Branford Beacon (Kendall coll. 1892).

273. SPHEROIDES TESTUDINEUS (Linné).

Tambor; Globefish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1734; 1900, pt. 4, pl. 265, fig. 646.

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TETRAODONTIDAE.

Tetraodon testudineus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 332. "IN INDIA."

R. I.— Newport (Cope 1870; Jordan & Evermann 1898).

274. SPHEROIDES TRICHOCEPHALUS (Cope).

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1737.

Tetraodon trichocephalus Cope, Proc. acad. nat. sci. Phil., 1870, p. 120. "NEWPORT, R. I."

R. I.— Newport [?] (Cope 1870).

DIODONTIDAE.

275. DIODON HYSTRIX Linné.

Porcupinefish.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 1758. "IN INDIA." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1745; 1900, pt. 4, pl. 266, fig. 648.

MASS.— Buzzards Bay (Smith 1898).

276. CHILOMYCTERUS SCHOEPFI (Walbaum).

Burrfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1748; 1900, pt. 4, pl. 266, fig. 649.

Diodon schoepfi Walbaum, Artedi Pisc., 1792, p. 601. "LONG ISLAND."

MASS.— Massachusetts Bay (B. S. N. H.); Woods Hole (Baird 1873 and Smith 1898).

R. I.— Watch Hill (Goode 1879); Narragansett Bay (R. I. fish comm. 1899); Newport (Bean 1880 and Pope coll. 1904).

CONN.— (Ayres 1843); Stratford; New Haven (Linsley 1844); Noank (Bean 1880).

MOLIDAE.

277. MOLA MOLA Linné.

Sunfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1753; 1900, pt. 4, pl. 267, fig. 651.

Tetraodon mola Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 334. "IN MEDITERRANEO."

Orthagoriscus mola Schn. Storer, Mem. Amer. acad., 1863, vol. 8, p. 420, pl. 34, fig. 2.

ME.—Off Portland (U. S. nat. mus. 1875).

MASS.—Boston Bay (Storer 1839); Nahant (Binney 1843); Upper Southbridge, Boston (Storer 1844); Massachusetts Bay (Storer 1863); Woods Hole (Baird 1873); Salem Harbor; off Gloucester (Goode & Bean 1879); Vineyard Sound; Buzzards Bay (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.—Narragansett Bay (R. I. fish comm. 1899); Block Island (Tracy 1906).

CONN.—Stonington (Linsley 1844); Noank (Goode 1879).

SCORPAENIDAE.

278. SEBASTES MARINUS (Linné).

Red perch; Bream.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1760; 1900, pt. 4, pl. 268, fig. 653.

Perca marina Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 290. "IN NORVEGIA; ITALIA."

Sebastes norvegicus Cuv. Storer, Mem. Amer. acad., 1853, vol. 5, p. 86, pl. 7, fig. 1.

ME.—Near Portland (Perley 1852); Eastport (Verrill 1871; U. S. nat. mus. 1872; Boardman & Atkins 1875; Bean 1880; Kendall coll. 1893); Casco Bay (U. S. nat. mus. 1873; Lee 1885).

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SCORPAENIDAE.

MASS.— Massachusetts Bay (Storer 1836, 1853 and Bean 1880); Misery Island, in Salem Harbor (Wheatland 1852); Provincetown (Storer 1854); Salem Harbor (Putnam 1856 and Wheatland 1859); Gloucester (Bean 1880); Woods Hole (Smith 1898).

279. SCORPAENA PLUMIERI Bloch.

Scorpion.

Bloch, Kongl. svenska vetensk. akad. Nya handl., 1789, vol. 10, p. 234. "MARTINIQUE." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1898.

MASS.— Katama Bay (Smith 1900).
CONN.— Stratford; Bridgeport (Linsley 1844).

280. SCORPAENA GRANDICORNIS Cuvier & Valenciennes.

Lionfish.

Cuvier & Valenciennes, Hist. nat. poissons, 1829, vol. 4, p. 309. "MARTINIQUE; PORTO RICO; HAVANA; SAN DOMINGO." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1850; 1900, pt. 4, pl. 278, fig. 672.

MASS.— Katama Bay (Smith 1900).

COTTIDAE.

281. ARTEDIELLUS ATLANTICUS Jordan & Evermann.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1906; 1900, pt. 4, pl. 285, fig. 690.
Centridermichthys uncinatus (Reinh.), Goode & Bean, Bull. Essex inst., 1879, vol. 11, p. 13.

MASS.— Massachusetts Bay (Goode & Bean 1879; Jordan & Evermann 1898).

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COTTIDAE

282. TRIGLOPS PINGELLII Reinhardt.

Reinhardt, Kong. Dansk. vid. selsk. Afh., 1832, vol. 5, p. 52. "GREENLAND." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1923; 1900, pt. 4, pl. 286, fig. 697.

MASS.—Near Race Point Lighthouse (B. S. N. H.); Massachusetts Bay (Goode & Bean 1879).

283. COTTUS GRACILIS Heckel.

Millers thumb; Rock cusk; Brook cusk.

Heckel, Ann. Wien. mus., 1839, vol. 2, p. 148. "NEW YORK." Storer, Mem. Amer. acad., 1853, vol. 5, p. 72, pl. 4, fig. 3.

Uranidea gracilis (Heckel). Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1968.

ME.—Richardson Lake (B. S. N. H.); Auburn (U. S. nat. mus. 1883); Bear River (Bowdoin college); Webster, Chamberlain, Eagle, Churchill and Beau lakes; Cross Lake Thoroughfare; tributary of Aroostook River, Caribou, (Kendall 1903); Rangeley Lakes (Atkins coll. 1903); Sebago Lake (Moses coll., 1906).

N. H.—Saco River, Bartlett (Storer 1853); Upper Connecticut River tributaries; Connecticut Lakes (Kendall & Goldsborough coll. 1904).

VT.—Johnson (Girard 1850); Windsor, Burlington (Girard 1850); River Lamoille (Thompson 1853).

MASS.—Clintonville (Dowse 1850) Williamstown (B. S. N. H., Buck & Nason coll.); Plymouth (Goode 1879).

CONN.—Manchester (Linsley 1844; Ayres 1845; Girard 1850).

284. MYOXOCEPHALUS AENEUS (Mitchill).

Grubby; Pygmy sculpin.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1972; 1900, pt. 4, pl. 295, fig. 1716.

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COTTIDAE.

Cottus aeneus Mitchill, Rept. fish. N. Y., 1814, p. 8, "NEW YORK." ? Storer, Report, 1839, p. 20.

ME.— Casco Bay (U. S. nat. mus., 1873; Lee 1885); Wolfsneck, Casco Bay (Kendall coll.).

MASS.— Off Cape Ann (B. S. N. H., Hyatt, VanVleck & Gardiner coll.); Gloucester; Salem (Goode & Bean 1879); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.— Narragansett Bay (R. I. fish comm. 1899) Willow Beach (Tracy 1906).

CONN.— Bridgeport; Norwalk (Linsley 1844); Noank (Bean 1880).

285. MYOXOCEPHALUS SCORPIUS (Linné).

Shorthorn sculpin; Ulki.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1974; 1900, pt. 4, pl. 295, fig. 717.

Cottus scorpius Linné, Syst. nat., ed. 10, 1758, p. 265. "IN OCEANO EUROPAEO."

ME.— Eastport (Goode & Bean 1879; Bean 1880; Kendall coll. 1893); Casco Bay, Freeport (Kendall coll. 1892 and 1896).

286. MYOXOCEPHALUS GROENLANDICUS (Cuvier & Valenciennes).

Deepwater sculpin; Black sculpin; Daddy sculpin.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1974.

Cottus groenlandicus Cuv. & Val., Hist. nat. poissons, 1829, vol. 4, p. 156. "GREENLAND."

Acanthocottus variabilis Girard. Storer, Mem. Amer. acad., 1853, vol. 5, p. 74, pl. 4. fig. 1.

ME.— Eastport (Verrill 1871; U. S. nat. mus. 1872; Bean 1880 and Kendall coll. 1893); Bucksport (U. S. nat. mus. 1878); Casco

Bay (U. S. nat. mus. 1873); Portland (Bean 1880); Whaleboat Island, Casco Bay (Kendall coll. 1892); Penobscot River and Bay (Evermann 1893).

MASS.—Nahant; Boston (Storer 1839); Nantucket Shoals (Storer 1848); Shores of Massachusetts Bay (Ayres 1850); Chelsea (Girard 1850); near Craigie Bridge, Boston (Ayres 1850); off Nantucket; Massachusetts Bay (Storer 1853); Salem (Wheatland 1859 and Bean 1880); Gloucester (Bean 1880); North Truro (Kendall coll. 1896); Woods Hole (Smith 1898); Cape Cod (Jordan & Evermann 1898).

R. I.—Narragansett Bay (R. I. fish comm. 1899).

CONN.—Long Island Sound (Linsley 1844); Shores (Girard 1850).

287. MYOXOCEPHALUS OCTODECIMSPINOSUS (Mitchill).

Sculpin; Hacklehead; Toadfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 1976; 1900, pt. 4, pl. 296, fig. 718.

Cottus 18-spinosus Mitchill, Rept. fish. N. Y., 1814, p. 7. "NEW YORK."

Acanthocottus virginianus Girard. Storer, Mem. Amer. acad., 1853, vol. 5, p. 76, pl. 4, fig. 2.

ME.—Common along whole coast. Eastport (Verrill 1871; Kendall coll. 1893); Casco Bay (U. S. nat. mus. 1873; Lee 1885; Kendall coll. 1892–1903); Bucksport (U. S. nat. mus. 1878); Portland (Bean 1880).

N. H.

MASS.—"Our bay" (Storer 1836); Massachusetts Bay (B. S. N. H., Kneeland & Wheatland coll.); Chatham (B. S. N. H., Davidson coll.); common (Storer 1839 and 1853); Salem (Wheatland 1859); Waquoit (Lyman 1872); Boston (Goode 1879); Salem; Gloucester (Bean 1880); North Truro; Monomoy; Menemsha

Bight (Kendall coll. 1896); Cape Cod (Jordan & Evermann 1898); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.—Brentons Reef (Tracy 1906).

CONN.—Stonington (Linsley 1844).

288. GYMNOCANTHUS TRICUSPIS (Reinhardt).

Staghorn sculpin.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 2008.

Cottus tricuspis Reinhardt, Kong. Dansk. vid. selsk. Afh., 1838, vol. 7, p. 117. "GREENLAND."

ME.—Eastport (U. S. nat. mus. 1872).

289. HEMITRIPTERUS AMERICANUS (Gmelin).

Sea raven; Sea sculpin; Toadfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 2023; 1900, pt. 4, pl. 305, fig. 738.

Scorpaena americana Gmelin, Syst. nat., 1788, vol. 1, p. 1220. "AMERICA."

Hemitripterus acadianus Storer. Storer, Mem. Amer. acad., 1853, vol. 5, p. 83, pl. 7, fig. 4.

ME.—Eastport (U. S. nat. mus. 1872; Bean 1880; Kendall coll. 1893); Casco Bay (U. S. nat. mus. 1873; Lee 1885; Kendall coll. 1896); Bucksport (U. S. nat. mus. 1878; Bean 1880); Portland (Bean 1880).

N. H.—

MASS.—"Very common" (Storer 1836); Massachusetts Bay (Storer 1853); Salem Harbor (Putnam 1856); Waquoit (Lyman 1872); Annisquam (B. S. N. H., Hyatt, Van Vleck & Gardiner coll.); Boston; Nantucket; Gloucester (Bean 1880); North Truro;

COTTIDAE.

Monomoy; Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.— Newport (Bean 1880); Narragansett Bay (R. I. fish comm. 1899); Connanicut Island (Tracy 1906).

CONN.— Stonington (Linsley 1844); Noank (Bean 1880).

AGONIDAE

290. ASPIDOPHOROIDES MONOPTERYGIUS (Bloch).

Sea poacher; Alligator fish.

Storer, Mem. Amer. acad., 1853, vol. 5, p. 80, pl. 8, fig. 1. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 2091; 1900, pt. 4, pl. 312, fig. 756.

Cottus monopterygius Bloch, Nat. ausl. fische, 1786, vol. 2, p. 156, pl. 178, fig. 1, 2.

ME.— Eastport (U. S. nat. mus. 1872; Kendall coll. 1893).

MASS.— Near Nahant (Storer 1839); Provincetown; Cape Cod; Boston Bay (Storer 1853); Ipswich Bay (B. S. N. H., Hyatt, Van Vleck & Gardiner coll.); Massachusetts Bay (Goode & Bean 1879 and Bean 1880).

R. I.— Watch Hill (Goode & Bean 1879).

CYCLOPTERIDAE.

291. CYCLOPTERUS LUMPUS Linné.

Lumpfish; Lumpsucker.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 260. "IN OCEANO BALTHICO & SEPTENTRIONALI." Garman, Mem. M. C. Z., 1892, vol. 14, p. 21, pl. 8, fig. 1–3; pl. 9, fig. 2, pl. 10, fig. 3, pl. 11, fig. 10, pl. 12–13. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 2096; 1900, pt. 4, pl. 313, fig. 757.

Lumpus anglorium Willoughby. Storer, Mem. Amer. acad., 1863, vol. 8, p. 402, pl. 32, fig. 2.

TELEOSTOMI. ACANTHOPTERI.

CYCLOPTERIDAE.

ME.— All along the coast. Eastport (U. S. nat. mus. 1872; Kendall coll. 1893); off Seguin (B. S. N. H., Arethusa coll. 1880); Bucksport (U. S. nat. mus. 1878); Casco Bay (U. S. nat. mus. 1873 and 1887; Lee 1885; Kendall coll. 1896; Penobscot River and Bay (Evermann 1903).

MASS.— Massachusetts Bay (Storer 1839; 1863); Massachusetts Bay, off the Misery (Putnam 1817); Waquoit (Lyman 1872); Woods Hole (Baird 1873 and Goode 1879); Plymouth (B. S. N. H., Bartlett coll.); Swampscot (B. S. N. H., Nason coll.); Nahant (Garman 1892); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Vineyard Sound (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Newport (Bean 1880); Narragansett Bay (R. I. fish comm. 1899).

292. EUMICROTREMUS SPINOSUS (Müller).

Spring lumpfish.

Garman, Mem. M. C. Z., 1892, vol. 14, p. 34, pl. 11, fig. 1-3.
Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 2098.
Cyclopterus spinosus Müller, Zool. Danicae Prodr., 1776 p. ix.

ME.— Eastport (Garman 1892).

MASS.— Massachusetts Bay (Goode & Bean 1879); off Cape Ann (B. S. N. H.).

LIPARIDIDAE.

293. NEOLIPARIS ATLANTICUS Jordan & Evermann.

Dark lumpsucker.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 2107. "GODBOUT, QUEBEC. * * * SALEM. * * * WOODS HOLE, MASSACHUSETTS. * * * FROM NEWFOUNDLAND TO CAPE COD."
Liparis (sp.?) Storer, Mem. Amer. acad., 1867, vol. 9, p. 256.

LIPARIDIDAE.

Liparis montagui Donovan. Garman, Mem. M. C. Z., 1892, vol. 14, p. 47, pl. 7, fig. 6–20; pl. 8, fig. 8–12.

ME.— Eastport; Portland Harbor (Garman 1892); Kittery (Bowdoin college); Seguin (Spinney coll. 1900).

MASS.— Massachusetts Bay; Salem; Nahant (Storer [Putnam] 1867); Salem Harbor (Putnam 1873 and Garman 1892); Woods Hole (Smith 1898).

CONN.— (Garman 1892).

294. LIPARIS LIPARIS (Linné).

Seasnail; Striped seasnail.

Garman, Mem. M. C. Z., 1892, vol. 14, p. 57, pl. 7, fig. 1–5, 21–22. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 116.

Cyclopterus liparis Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 414. "IN OCEANO SEPTENTRIONALI."

ME.— Near Eastport (Kendall coll. 1893).

MASS.— Salem Harbor (Putnam 1873); near Salem; Bakers Island (Goode & Bean 1879); Woods Hole (Smith 1898).

R. I.— Watch Hill Reef (Goode 1879); "Off Block Island"? (Garman 1892).

CONN.— Off Connecticut (Garman 1892).

TRIGLIDAE.

295. PRIONOTUS CAROLINUS (Linné).

Sea robin; Greeneye.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 2156; 1900, pt. 4, pl. 318, fig. 768.

Trigla carolina Linné, Mantissa, 1767, p. 528. "IN CAROLINAE MARI."

Prionotus palmipes Storer. Storer, Mem. Amer. acad., 1853, vol. 5, p. 66, pl. 5, fig. 1.

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TRIGLIDAE.

Prionotus pilatus Storer. Storer, Mem. Amer. acad., 1853, vol. 5, p. 68, pl. 6, fig. 1.

Me.— Casco Bay; off Monhegan (Smith & Kendall 1898); Casco Bay (Bowdoin).

Mass.— Holmes Hole (Storer 1839 and 1844); Massachusetts Bay (Storer 1845); Green Island; Phillips Point, Lynn (Storer 1842); Salem Harbor (Wheatland 1852); Vineyard Sound; Green Island; Phillips Point, Lynn; Massachusetts Bay (Storer 1845 and 1853); Tisbury (Storer 1853); Waquoit (Lyman 1872); Salem (Goode & Bean 1879); Annisquam (B. S. N. H.); Cohasset Narrows (Bean 1880); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. fish. comm. 1899).

Conn.— Stratford; Stonington (Linsley 1844); Noank (Bean 1880); off Bridgeport; off Stratford; Middle Ground; Penfield Reef (Kendall coll. 1890); off Faulkners Island; off Norwalk Light House (Kendall. coll. 1892).

296. Prionotus strigatus (Cuvier).

Redwinged Sea robin.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 2167.

Trigla strigata Cuvier, Régne anim., ed. 2, 1829, vol. 2, p. 161. "New York."

Prionotus lineatus DeKay. Storer, Mem. Amer. acad., 1853, vol. 5, p. 64, pl. 5, fig. 4.

Mass.— Holmes Hole (Storer 1839); Salem Harbor (Wheatland 1852); Vineyard Sound (Storer 1853); Waquoit (Lyman 1872); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Gloucester (B. S. N. H., Hyatt. coll.); Woods Hole

TRIGLIDAE.

(Baird 1873; Bean 1880 and Smith 1898); Marthas Vineyard (Jordan & Evermann 1898).

R. I.—Newport (Bean 1880); Narragansett Bay (R. I. fish comm. 1899).

CONN.—Stratford; Stonington (Linsley 1844); Noank (Bean 1880); off Stratford; off Bridgeport; Middle Ground (Kendall coll. 1890); off Faulkners Island; off S. W. Ledge; off Branford Beacon (Kendall coll. 1892).

CEPHALACANTHIDAE.

297. CEPHALACANTHUS VOLITANS (Linné).

Flying robin.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 2, p. 2183; 1900, pt. 4, pl. 323, fig. 788.

Trigla volitans Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 302. "IN MARI MEDITERRANEO, OCEANO, PELAGO INTER TROPICOS, IN ASIA, IMPRIMIS AD CAP. B. SPES, SALPE AGITATA EVOLANS EX AQUA."

Dactylopterus volitans Cuv. Storer, Mem. Amer. acad., 1853, vol. 5, p. 70, pl. 6, fig. 5.

ME.—(Holmes 1862).

MASS.—Holmes Hole (Storer 1853); Woods Hole (Baird 1873 and Bean 1880); Buzzards Bay; Vineyard Sound (Smith 1898).

R. I.—Narragansett Bay (R. I. fish comm. 1899).

CONN.—Long Island Sound (Linsley 1844).

GOBIIDAE.

298. GOBIOSOMA BOSCI (Lacépède).

Naked goby.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2259.

TELEOSTOMI. ACANTHOPTERI.

GOBIIDAE.

Gobius bosci Lacépède, Hist. nat. poissons, 1800, vol. 2, p. 555, pl. 16, fig. 1. "CHARLESTON, S. C."

Gobius alepidotus Bosc. DeKay, N. Y. fauna, 1842, pt. 4, p. 160, pl. 23, fig. 70.

MASS.— Buzzards Bay (Smith 1898).

CONN.— Bridgeport (Linsley 1844).

ECHENEIDIDAE.

299. ECHENEIS NAUCRATES Linné.

Sharksucker.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 261. "IN PELAGO INDICO." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2269; 1900, pt. 4, pl. 329, fig. 796.

? *Echeneis albicauda* Mitchill. Storer, Mem. Amer. acad., 1863, vol. 8, p. 404, pl. 32, fig. 3.

MASS.— Boston (Storer 1839); Hyannis (Storer 1842); Colins Cove, Salem (Wheatland 1852); Boston Bay (Storer 1839 and 1863); Holmes Hole (B. S. N. H., Storer coll.); Woods Hole (Baird 1873 and Smith 1898); West Falmouth (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Newport (Bean 1880); Narragansett Bay (R. I. fish comm. 1899).

CONN.— Long Island Sound (Linsley 1844).

300. ECHENEIS NAUCRATEOIDES Zuiew.

Pilotsucker.

Zuiew, Nova acta acad. sci. imp. Petropol., 1789, vol. 4, p. 279. —— Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2270.

MASS.—Hyannis (Storer 1842); Collins Cove; Mouth Merrimac River? (Goode & Bean 1879); Woods Hole (Baird 1873 and Smith 1898).

R. I.— Dutch Island Harbor (Tracy 1906).

ECHENEIDIDAE.

301. REMORA REMORA (Linné).

Remora.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2271.

Echeneis remora Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 260. "IN PELAGO INDICO."

MASS.—Salem Harbor (Goode & Bean 1879); Woods Hole (Baird 1873 and Smith 1898).

302. REMORA BRACHYPTERA (Lowe).

Swordfish sucker.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2272; 1900, pt. 4, pl. 330, fig. 797.

Echeneis brachyptera Lowe, Proc. zool. soc. London, 1839, p. 89. "MADEIRA."

Echeneis 14-laminatus Storer. Storer Mem. Amer. acad., 1863, vol. 8, p. 406, pl. 22, fig. 4.

MASS.—Holmes Hole (Storer 1839); Wellfleet (Storer 1863); Massachusetts Bay (Goode & Bean 1879); Woods Hole (Baird 1873 and Smith 1898).

303. RHOMBOCHIRUS OSTEOCHIR (Cuvier).

Spearfish sucker.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2273; 1900, pt. 4, pl. 330, fig. 798.

Echeneis osteochir Cuv., Regne anim., ed. 2, 1829, vol. 2, p. 348.

MASS.—Woods Hole (Baird 1873 and Smith 1898).

R. I.—Narragansett Bay (R. I. fish comm. 1899).

BATRACHOIDIDAE.

304. Opsanus tau (Linné).

Toadfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2315.

Gadus tau Linné, Syst. nat., ed. 12, 1766, vol. 1, pt. 1, p. 440. "in Carolina."

Batrachus tau Linné. Storer, Mem. Amer. acad. 1855, vol. 5, p. 271, pl. 19, fig. 1–2.

Me.— Kittery [?] (Holmes 1862).

Mass.— Holmes Hole (Storer 1839); Tisbury (Storer 1855); Cohasset (B. S. N. H., Bryant coll.); Long Point Creek (B. S. N. H., 1874); Massachusetts Bay (Goode & Bean 1879); Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.— Narragansett Bay (R. I. fish comm. 1998).

Conn.— Noank (Bean 1880).

PHOLIDIDAE.

305. Pholis gunnellus (Linné).

Butterfish; Rockeel.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2419; 1900, pt. 4, pl. 342, fig. 832.

Blennius gunnellus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 257. "in Oceano Atlantico."

Gunnellus mucronatus Cuv. Storer, Mem. Amer. acad., 1855, vol. 5, p. 260, pl. 17, fig. 2.

Gunnellus macrocephalus Girard. Storer, Mem. amer. acad., 1855, vol. 5, p. 261, pl. 17, fig. 3.

Me.— Along the whole coast. Eastport (U. S. nat. mus. 1872;

PROLUBIDAE.

Bean 1880, Kendall coll. 1893); Manomet Island (B. S. N. H., Arethusa coll. 1880); Cape Cod Bay (U. S. nat. mus. 1873; Lee 1885; Kendall coll. 1892); New Meadows River (Bowdoin college 1890).

MASS.—Chelsea Beach (H. R. Storer 1850); Holmes Hole; Provincetown; Nahant (Storer 1855); Naugus Head (Goode & Bean 1879); Ipswich Bay (B. S. N. H., Hyatt, Van Vleck & Gardiner coll.); New Bedford (Bean 1880); Woods Hole (Baird 1873, Bean 1880 and Smith 1898); Vineyard Sound (Smith 1898).

R. I.—Narragansett Bay (R. I. fish comm. 1899 and Tracy 1906).

CONN.—Bridgeport; Stonington (Linsley 1844).

STICHAEIDAE.

306. LEPTOCLINUS MACULATUS (Fries).

Langbarn.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2433.

Clinus maculatus Fries, Kongl. svenska vetensk. akad. Nya handl., 1838 (1837), p. 49. "BAHUSLAN, SWEDEN."

MASS.—Massachusetts Bay (Goode & Bean 1879).

307. LUMPENUS LAMPETRAEFORMIS (Walbaum).

Snake blenny.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2438; 1900, pt. 4, pl. 344, fig. 840.

Blennius lampetrae-formis, *lampetraeformis*, *lampetriformis*, Walbaum, Artedi Pisc., 1792, pp. 184, 700 and 702. "ICELAND."

Blennius serpentinus Storer. Storer Mem. Amer. acad., 1855, vol. 5, p. 257, pl. 17, fig. 1.

ME.—Eastport (U. S. nat. mus. 1872).

STICHAEIDAE.

MASS.— Massachusetts Bay (Storer 1848, 1855; Goode & Bean 1879).

308. ULVARIA SUBBIFURCATA (Storer).

Radiated shanny.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1896, pt. 3, p. 2440; 1900, pt. 4, pl. 345, fig. 842.

Pholis subbifurcatus Storer, Rept. 1839, p. 63. "NAHANT." Mem. Amer. acad., 1855, vol. 5, p. 258.

ME.— Casco Bay (U. S. nat. mus., 1873); off Matinicus (Norton coll. 1906).

MASS.— Nahant (Storer 1839 and 1855).

CRYPTACANTHODIDAE.

309. CRYPTACANTHODES MACULATUS Storer.

Wrymouth; Congereel.

Storer, Rept., 1839, p. 28. "BOSTON HARBOR * * * NAHANT." Mem. Amer. acad. 1853, vol. 5, p. 82, pl. 8, fig. 6. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2443; 1900, pt. 4, pl. 345, fig. 843.

ME.— Eastport (U. S. nat. mus., 1853; Kendall 1893); Portland (Goode 1879); Casco Bay (Lee 1885; Kendall coll. 1893); Middle Bay (Bowdoin College).

N. H.— (Peck 1804).

MASS.— Boston Harbor; Nahant (Storer 1839); Commercial Point (Storer 1842f); Provincetown; Dorchester; Massachusetts Bay (Storer 1853); Marblehead; Swampscot (Goode & Bean 1879); Woods Hole (Smith 1898).

R. I.— Provincetown (Goode 1879).

CONN.— Bridgeport (Linsley 1844).

TELEOSTOMI ACANTHOPTERI.

ANARHICHADIDAE.

310. ANARHICHAS MINOR Olafsen.

Spotted wolffish.

Olafsen, Reise i Island, 1772, p. 592. "ISLAND." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2446.

ME.—Eastport (Goode & Bean 1896).

MASS.—Off mouth Gloucester Harbor (Goode & Bean 1896).

311. ANARHICHAS LUPUS Linné.

Wolffish; Catfish.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 247. "IN OCEANO SEPTENTRIONALI ANGLIAE, &c." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2446; 1900, pt. 4, pl. 348, fig. 846. Goode & Bean, Oceanic ichth., 1896, p. 299, pl. 77, fig. 269.

Anarrhicas vomerinus Agassiz. Storer, Mem. Amer. acad., 1855, vol. 5, p. 265, pl. 18, fig. 1.

ME.—Eastport (Verrill 1871; Kendall coll. 1893); Casco Bay Lee 1885; Kendall coll.).

MASS.—Cusk Rocks (Storer 1839 and 1855); Annisquam (B. S. N. H., Arethusa coll.); off Gloucester (Bean 1880); North Truro (Kendall coll. 1896); Woods Hole; Vineyard Sound (Smith 1898).

R. I.—Coxswains Ledge (Goode 1879); Narragansett Bay (R. I. fish comm. 1899).

ZOARCIDAE.

312. ZOARCES ANGUILLARIS (Peck).

Eelpout; Conger eel; Lamper-eel; Ling.

Storer, Mem. Amer. acad., 1855, vol. 5, p. 263, pl. 17, fig. 4. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2457; 1900, pt. 4, pl. 348, fig. 850.

Blennius anguillaris Peck, Mem. Amer. acad., 1804, vol. 2, p. 46, fig. "NEW HAMPSHIRE."

TELEOSTOMI. ACANTHOPTERI.

ZOARCIDAE.

ME.— Eastern River (Williamson 1832); Eastport (U. S. nat. mus. 1872; Bean 1880; Kendall coll. 1893). Bucksport (U. S. nat. mus. 1878); Portland (Bean 1880); Casco Bay (Lee 1885; Kendall coll. 1896; 1903 and 1904).

N. H.— (Peck 1804).

MASS.— Massachusetts Bay (Storer 1836); Provincetown (Storer 1855); North Truro (B. S. N. H., Davidson coll.); off Cape Ann, and Annisquam (B. S. N. H., Hyatt, Van Vleck & Gardiner coll.); Gloucester (Bean 1880); Nantucket Shoals (Goode 1879); Gayhead; Cuttyhunk (Smith 1898).

R. I.— Block Island; Narragansett Bay (R. I. Fish Comm. 1899).

CONN.— Middleground (Linsley 1844).

313. LYCODES RETICULATUS Reinhardt.

Reinhardt, Kong. Dansk. vid. selsk. Afh., 1838, vol. 7, p. 167. "GREENLAND." Goode & Bean, Oceanic ichth., 1896, p. 305, pl. 78, fig. 273; pl. 81, fig. 281. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2465; 1900, pt. 4, pl. 349, fig. 854.

MASS.— Vineyard Sound (Goode & Bean 1896; Smith 1898).

R. I.— Narragansett Bay (Goode & Bean 1896; Smith 1898).

314. LYCODES VERRILLII Goode & Bean.

Goode & Bean, Amer. journ. sci., 1877, vol. 14, p. 474. "THIRTY MILES SOUTH OF CAPE NEGRO, N. S. AND TWENTY-SEVEN MILES SOUTH OF CHEBUCTO HEAD, HALIFAX."

Lycenchelys verrillii Goode & Bean, Oceanic ichth., 1896, p. 309, pl. 79, fig. 277. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2470; 1900, pt. 4, pl. 351, fig. 859.

MASS.— "Deepwater of the bay" (Goode & Bean 1879); off Cape Cod; off Thatchers Island (Goode & Bean 1896).

R. I.— Newport [?] (B. S. N. H.).

MERLUCCIDAE.

315. MERLUCCIUS BILINEARIS (Mitchill).

Silver Hake; New England Hake; Whiting.

Goode & Bean, Oceanic ichth., 1896, p. 385, pl. 95, fig. 330. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2530.

Stomodon bilinearis Mitchill, Rept. fish. N. Y., 1814, p. 7. "NEW YORK."

Merluccius albidus DeKay. Storer, Mem. Amer. acad., 1858, vol. 6, p. 363, pl. 28, fig. 2.

ME.—Along whole coast: Eastport (Bean 1880; Kendall coll. 1893); Portland (Bean 1880); Casco Bay (Kendall coll. 1896); Penobscot River and Bay (Evermann 1903).

MASS.—Holmes Hole (Storer 1839); Crab Ledge; Provincetown (Storer 1859); Boston Bay (B. S. N. H., Cutting coll.); Annisquam (B. S. N. H.); Waquoit (Lyman 1872); Woods Hole (Baird 1873); New Bedford; Nomans Land; Gloucester (Bean 1880); off Cape Ann (Goode & Bean 1896); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Buzzards Bay (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.—Narragansett Bay (Goode & Bean 1896; R. I. fish comm. 1899).

CONN.—Stonington (Linsley 1844); off Stratford (Kendall coll. 1890); off Faulkners Island; off Branford Beacon (Kendall coll. 1892).

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316. POLLACHIUS VIRENS (Linné).

Pollock.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2534; 1900, pt. 4, pl. 359, fig. 886.

Gadus virens Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 253. "IN OCEANO EUROPAEO."

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Merlangus purpureus Storer. Storer, Mem. Amer. acad., 1858, vol. 6, p. 358, pl. 28, fig. 3.

Me.— Along the whole coast. Eastport (U. S. nat. mus. 1872; Verrill 1871; Bean 1880; Kendall coll. 1893); off Moosabec Light; Isle au Haute, Matinic, Matinicus, Monhegan and Seguin islands; Cape Porpoise (Collins & Rathbun 1887); Sheepscot River (Bowdoin college); Casco Bay (Lee 1885; Kendall coll. 1892; 1896; 1900–1904); Searsport; Stockton Springs; Brookville (Evermann 1903).

Mass.— Common along whole coast; Jeffries Ledge (Storer 1839 and 1859); Provincetown (Atwood 1867); Salem Harbor (B. S. N. H., Brown coll.); Annisquam (B. S. N. H., Hyatt & Van Vleck coll.); Woods Hole (Baird 1873 and Bean 1880); Gloucester (Bean 1880); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Vineyard Sound (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. fish comm. 1899); Dutch Island Harbor and from Brentons Reef to Sakonnet (Tracy 1906).

Conn.— Long Island Sound; Stratford (Linsley 1844).

317. Microgadus tomcod (Walbaum).

Tomcod; Frostfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2540.

Gadus tomcod Walbaum, Artedi Pisc., 1792, p. 133. "New York."

Morrhua pruinosa DeKay. Storer, Mem. Amer. acad. 1858, vol. 6, p. 357, pl. 27, fig. 5.

Me.— Common along whole coast. Eastport (U. S. nat. mus. 1872; Bean 1880; Kendall coll. 1893); Machias, Chandlers, Wescongus, Tunk, Penobscot, Kennebec and Piscataqua rivers; Casco Bay and tributaries (Atkins 1887); Casco Bay (Lee 1885;

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Bean 1880; Kendall coll. 1902); Penobscot River & Bay (Evermann 1903).

N. H.— Piscataqua River (Atkins 1880).

MASS.— Boston; Watertown (Storer 1839 and 1859); Massachusetts Bay (B. S. N. H., Storer coll., Davidson coll.); Woods Hole (Baird 1873; Bean 1880 and Smith 1898).

R. I.— Narragansett Bay (R. I. fish comm. 1899).

CONN.— Streams flowing into Long Island Sound (Linsley 1844); Noank (Bean 1880).

318. GADUS CALLARIAS Linné.

Cod.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 252. "IN OCEANO EUROPAEO & BALTHICO." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2541; 1900, pt. 4, pl. 361, fig. 891.

Morrhua americana Storer. Storer, Mem. Amer. acad., 1858, vol. 6, p. 343, pl. 27, fig. 4.

ME.— Common along whole coast. Eastport (Verrill 1871; U. S. nat. mus. 1872; Kendall coll. 1893); grounds off Moosabec Light; Petit Manan; Mount Desert; Isle au Haute; Matinicus; Matinic and Monhegan islands; north; northeast; south and southeast of Monhegan; between Monhegan and Pemaquid; off Seguin; off Casco Bay; off Cape Porpoise (Collins & Rathbun 1887); Portland (Goode 1879); Casco Bay (U. S. nat. mus. 1873; Lee 1885; Kendall coll.); Penobscot River and Bay (Evermann 1903).

N. H.— Off Portsmouth; Piscataqua River (Collins & Rathbun 1887).

MASS.— Along whole coast (Storer 1839); Provincetown (Storer 1859; Atwood 1865 and Bean 1880); Waquoit (Lyman 1872); Woods Hole (Baird 1873); Ipswich Bay (B. S. N. H., Davidson

coll.); Salem Harbor (B. S. N. H., Brown coll.); Cape Ann (Goode & Bean 1879); Nomans Land; Woods Hole; Gloucester (Bean 1880); Ipswich Bay; off Cape Ann, Middle Bank; Pollack Rip; Nantucket Shoals (Collins & Rathbun 1887); North Truro; Monomoy (Kendall coll. 1896); Vineyard Sound (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. fish comm. 1899); off Block Island (Collins & Rathbun 1887).

CONN.— Stonington (Linsley 1844).

319. MELANOGRAMMUS AEGLIFINUS (Linné).

Haddock; Whiteeye.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2542; 1900, pt. 4, pl. 361, fig. 892.

Gadus aeglifinus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 251. "IN OCEANO EUROPAEO."

Morrhua aeglifinus Linné. Storer, Mem. Amer. acad. 1858, vol. 6, p. 355, pl. 28, fig. 1.

ME.— Along whole coast. Eastport (Verrill 1871; U. S. nat. mus. 1872; Kendall coll. 1893); Grounds off Petit Manan; Mount Desert; Isle au Haute; Matinicus; Matinic, Monhegan and Seguin islands; off Casco Bay and Cape Porpoise (Collins & Rathbun 1887); Portland (Goode 1879); Casco Bay (U. S. nat. mus. 1873; Lee 1885; Kendall coll.).

MASS.— Cape Cod; Massachusetts Bay (Storer 1839 and 1859); Woods Hole (Baird 1873); off Cape Ann; off Chatham, (Collins & Rathbun 1887); off Gay Head and Marthas Vineyard (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. fish comm. 1899); off Block Island (Collins & Rathbun 1887).

CONN.— Stonington (Linsley 1844).

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320. LOTA MACULOSA (Le Sueur).

Burbot; Freshwater cusk; Lawyer; Ling.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2550; 1900, pt. 4, pl. 364, fig. 897.

Gadus maculosus Le Sueur, Journ. acad. nat. sci. Phil., 1817, vol. 1, p. 83. "LAKE ERIE."

Lota compressa Le Sueur. Storer, Mem. Amer. acad. 1858, vol. 6, p. 360, pl. 28, fig. 4.

ME.—Moosehead Lake (B. S. N. H., Davidson coll.), Sebago Lake (Mitchill 1818; Bowdoin college; Kendall coll. 1903); Stillwater River (Merrill coll.); Eagle and St. Francis lakes (Perley 1852; Kendall coll. 1901 and 1903); Matagamon, and Allagash River lakes; Hurd Pond & Debsconeag Lake (Kendall coll. 1901).

N. H.—Ashuelot River (Storer 1839); Lake Winnipisseogee (Storer 1841?; 1842; Prescot 1851); Squam Lake; Winnipesaukee Lake (N. H. fish comm. 1877); Indian Stream & Connecticut Lakes (Kendall & Goldsborough coll. 1904).

VT.—Lake Champlain (Thompson 1842); (Storer 1842).

MASS.—Connecticut River at Northampton (LeSueur 1818).

CONN.—Canaan (Linsley 1844).

321. UROPHYCIS REGIUS (Walbaum).

Spotted hake.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2553; 1900, pt. 4, pl. 364, fig. 898.

Blennius regius Walbaum, Artedi Pisc., 1792, p. 186. "NEW YORK."

ME.—Off Seguin Island (B. S. N. H., Arethusa coll.).

MASS.—Woods Hole (Smith 1898).

CONN.—Long Island Sound (Linsley 1844); off Stratford; Middle Ground (Kendall coll. 1890); off Faulkners Island (Kendall coll. 1892).

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322. Urophycis tenuis (Mitchill).

Hake; White hake.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2555; 1900, pt. 4, pl. 365, fig. 901.

Gadus tenuis Mitchill, Rept. fish. N. Y., 1814, p. 4. "New York."

Phycis americanus Storer. Storer, Mem. Amer. acad., 1858, vol. 6, p. 365, pl. 29, fig. 3.

Me.— Muddy bottoms along the whole coast. Eastport (Verrill 1871); U. S. nat. mus. 1872; Bean 1880; Kendall coll. 1893); Portland (Bean 1880); Grounds off Moosabec Light, Petit Manan; Isle au Haute; Matinicus and Matinic Islands; southeast of Monhegan; between Monhegan and Pemaquid; off Seguin (Collins & Rathbun 1887); Casco Bay (U. S. nat. mus. 1873); Lee 1885; Kendall coll. 1896; 1900 and 1903).

Mass.— Between Cape Ann and Boston Light House (Storer 1839 and 1859); Massachusetts Bay (B. S. N. H., Storer coll.); Annisquam (B. S. N. H., Hyatt & Van Vleck coll.); Provincetown (Atwood 1867 and Bean 1880); Waquoit (Lyman 1872); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Woods Hole (Bean 1880 and Smith 1898).

R. I.— Watch Hill (B. S. N. H., Hyatt & Rathbun coll.); Narragansett Bay (R. I. fish comm. 1899); off Watch Hill (Tracy 1906).

Conn.— Off Stratford; Middle Ground (Kendall coll. 1890).

323. Urophycis chesteri (Goode & Bean).

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2556; 1900, pt. 4, p. 366, fig. 903.

Phycis chesteri Goode & Bean, Proc. U. S. nat. mus., 1878, vol. 1, p. 256. "Off Cape Ann in 140 fathoms."

Mass.— Massachusetts Bay (Goode & Bean 1879).

GADIDAE.

324. UROPHYCIS CHUSS (Walbaum).

Squirrel hake.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2555; 1900, pt. 4, pl. 265, fig. 902.

Blennius chuss Walbaum, Artedi Pisc., 1792, p. 186. "NEW YORK."

Phycis filamentosus Storer, Mem. Amer. acad., 1858, vol. 6, p. 367, pl. 29, fig. 4.

ME.—Common along whole coast. Eastport (Kendall coll. 1893; Casco Bay (Kendall coll. 1896; 1898; 1900; 1902).

MASS.—Massachusetts Bay (Storer 1859; B. S. N. H.); Provincetown (Atwood 1867); Boston (Goode 1879); Gloucester (Bean 1880); North Truro; Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873 and Smith 1898).

R. I.—Rhode Island (Rafinesque 1818); Point Judith (Mitchill 1818); Narragansett Bay (R. I. fish comm. 1899).

CONN.—Stonington (Linsley 1844); off Bridgeport; off Stratford Shoal Point; Middle Ground (Kendall coll. 1890); off Faulkners Island; off Branford Beacon; off Norwalk Light House (Kendall coll. 1892).

325. GAIDROPSARUS ARGENTATUS (Reinhardt).

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2559; 1900, pt. 4, pl. 367, fig. 906.

Motella argentata Reinhardt, Kong. Dansk. vid. selsk. Afh., 1838, vol. 7, p. 128. "GREENLAND."

MASS.—Nahant (Gill 1863); Beverly Beach; Wests Beach (Storer [Putnam] 1867); Vineyard Sound (Goode 1879).

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326. ENCHELYOPUS CIMBRIUS (Linné).

Four bearded rockling.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2560; 1900, pt. 4, pl. 367, fig. 907.

Gadus cimbrius Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 440. "IN O. ATLANTICO; SCANICO."

Motella caudacuta Storer. Storer, Mem. Amer. acad., 1858, vol. 6, p. 361, pl. 29, fig. 1.

ME.— Off Pemaquid (B. S. N. H., Arethusa coll.); Jonesport (Kendall coll. 1893).

MASS.— Provincetown (Storer 1848, 1859 and Bean 1880); Nahant Beach (B. S. N. H., Cooke coll.); Massachusetts Bay (Storer 1859); Gloucester (Bean 1880); Woods Hole (Smith 1898; Sherwood & Edwards 1901).

327. BROSMIUS BROSME (Müller).

Cusk.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2561.

Gadus brosme Müller, Zool. Danicae Prodr., 1776, p. 41. "DENMARK."

Brosmius flavescens LeSueur. Storer, Mem. Amer. acad., 1858, vol. 6, p. 368, pl. 29, fig. 2.

ME.— Rock bottoms along the whole coast. Off Wells Bay and Cape Porpoise (Atwood 1867); Eastport (Kendall coll. 1893); grounds off Matinicus and Monhegan islands, and off Cape Porpoise (Collins & Rathbun 1887); Casco Bay (Lee 1885; Kendall coll. 1893).

N. H.— (Linsley 1844).

MASS.— Middle Bank (Storer 1839 and 1859); Massachusetts

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Bay (B. S. N. H., Storer coll.); near Cape Cod (Atwood 1867); Woods Hole (Smith 1898).

R. I.—Narragansett Bay (R. I. Fish Comm. 1899) off Newport (Tracy 1906).

MACROURIDAE.

328. MACROURUS BAIRDII Goode & Bean.

Rattail.

Goode & Bean, Amer. journ. sci., 1877, vol. 14, p. 171. "MASSACHUSETTS BAY." Oceanic ichth., 1896, p. 393, pl. 96, fig. 335. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2583.

ME.—Eastport (Kendall coll. 1893).

MASS.—Massachusetts Bay (Goode & Bean 1877; 1879; 1896); Gloucester [?] (Bean 1880); Vineyard Sound (Goode & Bean 1896).

PLEURONECTIDAE.

329. HIPPOGLOSSUS HIPPOGLOSSUS (Linné).

Halibut.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2611; 1900, pt. 4, pl. 271, fig. 918.

Pleuronectes hippoglossus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 269. "IN OCEANO EUROPAEO."

Hippoglossus vulgaris Cuv. Storer, Mem. Amer. acad., 1858, vol. 6, p. 370, pl. 30, fig. 1.

ME.—Formerly abundant, now scarce. Eastport (U. S. nat. mus. 1872); New Ledge (Storer 1859); off the coast (Kendall coll. 1895).

MASS.—Nantucket Shoals; Massachusetts Bay (Storer 1859); Woods Hole (Baird 1873); Halfway Rock, Salem Harbor; Glou-

cester Harbor (Goode & Bean 1879); Vineyard Sound (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Block Island (Sherwood & Edwards 1901); off Watch Hill and off Block Island (Tracy 1906).

CONN.— Stonington (Linsley 1844).

330. HIPPOGLOSSOIDES PLATESSOIDES (Fabricius).

Sand-dab.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2614; 1900, pt. 4, pl. 372, fig. 919.

Pleuronectes platessoides Fabr., Fauna Groenlandica, 1780, p. 164. "GREENLAND."

Platessa dentata Storer. Storer, Mem. Amer. acad., 1863, vol. 8, p. 391, pl. 30, fig. 3.

MASS.— Provincetown (Storer 1863); Ipswich Bay, and off Cape Ann (B. S. N. H., Hyatt, Van Vleck & Gardiner coll. 1879); Massachusetts Bay (Goode & Bean 1879 and Bean 1880); Gloucester (Bean 1880); Woods Hole (Smith 1898).

R. I.— (Bean 1880 and Tracy 1906).

331. PARALICHTHYS DENTATUS (Linné).

Summer flounder; Flounder; Turbot; Plaice.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2629; 1900, pt. 4, pl. 372, fig. 922.

Pleuronectes dentatus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 458. "IN CAROLINA."

Platessa oblonga DeKay. Storer, Mem. Amer. acad., 1863, vol. 8, p. 395, pl. 31, fig. 2.

ME.— Casco Bay (U. S. nat. mus. 1872).

MASS.—Provincetown; Wellfleet (Storer 1863); Chatham

(B. S. N. H., Davidson coll.); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Waquoit (Lyman 1872); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. fish comm. 1899).

CONN.— Stratford (Linsley 1844); Noank (Bean 1880); off Stratford Point; Middle Ground (Kendall coll. 1890).

332. PARALICHTHYS OBLONGUS (Mitchill).

Four-spotted flounder.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2632; 1900, pt. 4, pl. 374, fig. 924.

Pleuronectes oblongus Mitchill, Trans. lit. & philos. soc. N. Y., 1815, vol. 1, p. 391. "NEW YORK."

Platessa quadrocellata Storer. Storer, Mem. Amer. acad., 1863, vol. 8, p. 397, pl. 31, fig. 3.

MASS.— Provincetown (Storer 1847, 1863 and Bean 1880); Waquoit (Lyman 1872); South of Nantucket; Gayhead, (B. S. N. H., Hyatt & Simonds coll.); Mouth of Salem Harbor (Goode & Bean 1879); North Truro; Monomoy (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. fish comm. 1899).

CONN.— Stratford (Linsley 1844); Noank (Bean 1880); off Stratford; off Bridgeport; Middle Ground (Kendall coll. 1890); off Faulkners Island; off S. W. Ledge; off Branford Beacon (Kendall coll. 1892).

333. LIMANDA FERRUGINEA (Storer).

Rusty dab; Rusty flounder.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2644; 1900, pt. 4, pl. 377, fig. 929.

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Platessa ferruginea Storer, Rept., 1839, p. 141, pl. 2. "Cape Ann." Mem. Amer. acad., 1863, vol. 8, p. 392, pl. 30, fig. 4.

Me.— Casco Bay (U. S. nat. mus. 1873).

Mass.— Cape Ann (Storer 1839 and 1863); Waquoit (Lyman 1872); Woods Hole (Baird 1873); Massachusetts Bay (Goode & Bean 1879); Salem; Gloucester (Bean 1880); North Truro; Monomoy (Kendall coll. 1896); Vineyard Sound; Buzzards Bay (Smith 1898).

R. I.— Narragansett Bay (R. I. fish comm. 1899).

334. Pseudopleuronectes americanus (Walbaum).

Winter flounder; Flounder; Roughback Flounder; Flatfish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2647; 1900, pt. 4, pl. 379, fig. 933.

Pleuronectes americanus Walbaum, Artedi Pisc., 1792, p. 113. "New York."

Platessa plana Storer. Storer, Mem. Amer. acad., 1863, vol. 8, p. 389, pl. 30, fig. 2.

Me.— Common along the whole coast. Eastport (U. S. nat. mus. 1872; Kendall coll. 1893); Bucksport (U. S. nat. mus. 1878 and Bean 1880); Portland (Bean 1880); Casco Bay (Lee 1885; Kendall coll. 1892; 1893; 1896; 1900); Lower Penobscot River (Kendall coll. 1892); Penobscot River and Bay (Evermann 1903).

Mass.— Boston Harbor (Storer 1843); Deer Island (Storer 1839; 1863); Massachusetts Bay (B. S. N. H., Putnam coll.); Orleans (B. S. N. H., Davidson coll.); Waquoit (Lyman 1872); Gloucester (Bean 1880); North Truro; Monomoy (Kendall coll. 1896); Woods Hole (Baird 1873; Goode 1879; Bean 1880 and Smith 1898); Annisquam (B. S. N. H., Hyatt, Van Vleck & Gardiner coll.); New Bedford; Woods Hole; Provincetown; Boston (Jordan & Evermann 1898).

R. I.—Narragansett Bay (R. I. fish comm. 1899); Conimicut (Pope coll.); Willow Beach and Greenwich Bay (Tracy 1906).

CONN.—"Common" (Linsley 1844); off Bridgeport; off Stratford; Middle Ground (Kendall coll. 1890); off Branford Beacon (Kendall coll. 1892).

335. LIOPSETTA PUTNAMI (Gill).

Smooth flounder; Smooth-back flounder.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2650; 1900, pt. 4, pl. 380, fig. 936.

Euchalarodus putnami Gill, Proc. acad. nat. sci. Phil., 1864, p. 216. "SALEM, MASS."

Platessa glabra Storer. Storer, Mem. Amer. acad., 1863, vol. 8, p. 393, pl. 31, fig. 1.

ME.—Casco Bay (U. S. nat. mus. 1873; Kendall coll. 1892, 1898–1900); Portland (Bean 1880); Bucksport (Bean 1878 and 1880); Belfast (Jordan & Evermann 1898); Penobscot River and Bay (Evermann 1903).

MASS.—Boston Harbor (Storer 1843c); Salem (Gill 1864); Beverly Bridge; Salem Harbor (Goode & Bean 1879); Boston (Jordan & Evermann 1878).

R. I.—Providence.

336. GLYPTOCEPHALUS CYNOGLOSSUS (Linné).

Pole flounder; Lemon sole.

Goode & Bean, Oceanic ichth., 1896, p. 430, pl. 102, fig. 356. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2657.

Pleuronectes cynoglossus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 269. "IN OCEANO BELGICUM ALLUENTE."

ME.—Eastport (Goode & Bean 1896).

MASS.—Off Salem (Goode & Bean 1879); Gloucester (Bean 1880); Massachusetts Bay (Bean 1880 and Goode & Bean 1896).

PLEURONECTIDAE.

337. LOPHOPSETTA MACULATA (Mitchill).

Window pane; Plaice Sand-dab.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2660; 1900, pt. 4, pl. 382, fig. 938.

Pleuronectes maculatus Mitchill, Rept. fish. N. Y., 1814, p. 9. "NEW YORK." Storer, Mem. Amer. acad., 1863, vol. 8, p. 398, pl. 31, fig. 4.

ME.— Eastport (U. S. nat. mus. 1875 and Bean 1880); Bucksport (Goode 1884); Casco Bay (U. S. nat. mus. 1873; Bean 1880; Smith & Kendall 1896).

MASS.— Provincetown (Storer 1845 and Bean 1880); Holmes Hole (Storer 1863); Waquoit (Lyman 1872); Salem Harbor; Gloucester Harbor; Milk Island (Goode & Bean 1879); Vineyard Sound; Gloucester (Bean 1880); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Woods Hole (Baird 1873; Bean 1880 and Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. fish comm. 1899).

CONN.— Bridgeport; Stonington (Linsley 1844); Noank (Bean 1880); off Bridgeport; off Stratford; Middle Ground (Kendall coll. 1890); off Faulkners Island; off S. W. Ledge; off Branford Beacon (Kendall coll. 1892).

SOLEIDAE.

338. ACHIRUS FASCIATUS Lacépède.

Hogchoker.

Lacépède, Hist. nat. poiss., 1802, vol. 4, p. 659. "CHARLESTON, S. C." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2700; 1900, pt. 4, pl. 387, fig. 948.

Achirus mollis Cuv. Storer, Mem. Amer. acad., 1863, vol. 8, p. 400, pl. 32, fig. 1, 6.

SOLEIDAE.

MASS.— Tashmore Pond, Holmes Hole (Storer 1839); Nahant (Storer 1842); Holmes Hole; Charles River (Storer 1863); Woods Hole (Baird 1873); Nahant, Provincetown (Goode & Bean 1879); New Bedford (Bean 1880); Menemsha Bight (Kendall coll. 1896); Wareham River; Vineyard Sound; Woods Hole (Smith 1898).

R. I.— Providence; Newport (Bean 1880); Narragansett Bay (R. I. fish comm. 1899); Conimicut (Pope coll. 1894–97).

CONN.— Stratford (Linsley 1844); near Hartford (Ayres 1844); off Stratford; Middle Ground (Kendall coll. 1890).

LOPHIIDAE.

339. LOPHIUS PISCATORIUS Linné.

Goosefish; Monkfish.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 236. "IN OCEANO EUROPAEO SUB LAPIDUM FORNICIBUS." Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2713; 1900, pt. 4, pl. 388, fig. 952.

Lophius americanus Cuv. Storer, Mem. Amer. acad., 1855, vol. 5, p. 267, pl. 18, fig. 2.

ME.— Eastport (U. S. nat. mus. 1872; Kendall coll. 1893); Casco Bay (Lee 1885; Kendall coll. 1896; 1900).

MASS.— Massachusetts Bay (Storer 1839 and Cutting 1860); Boston Bay (Storer 1839); Provincetown (Storer 1855); Waquoit (Lyman 1872); Woods Hole (Baird 1873); Gloucester (Bean 1880); North Truro; Monomoy; Menemsha Bight (Kendall coll. 1896); Vineyard Sound (Smith 1898); Nantucket (Sharp & Fowler 1904).

R. I.— Narragansett Bay (R. I. fish comm. 1899).

CONN.— Bridgeport; Stratford (Linsley 1844).

ANTENNARIIDAE.

340. PTEROPHRYNE HISTRIO (Linné).

Mousefish.

Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2716.

Lophius histrio Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 237. "IN PELAGO INTER FUCUM NATANTEM."

Chironectes laevigatus Cuv. Storer, Mem. Amer. acad., 1855, vol. 5, p. 270, pl. 18, fig. 3.

MASS.— Holmes Hole (Storer 1839 and 1855); Woods Hole (Bean 1880 and Smith 1898).

R. I.— Montauk Point (?); mouth of Sakonnet River (Tracy 1906).

CONN.— Long Island Sound (Linsley 1844).

OGCOCEPHALIDAE.

341. DIBRANCHUS ATLANTICUS Peters.

Peters, Monats. kon. akad. wiss. Berlin, 1876, (1875), p. 736, pl. "WEST AFRICA 360 FATHOMS." Goode & Bean, Oceanic ichth., 1896, p. 501, pl. 122, fig. 413. Jordan & Evermann, Bull. 47, U. S. nat. mus., 1898, pt. 3, p. 2743.

R. I.— Off Block Island (Goode & Bean 1896); Newport [?] (Jordan & Evermann 1898).

Occasional Papers
OF THE
Boston Society of Natural History
VII.

FAUNA OF NEW ENGLAND.

11.

LIST OF THE AVES.

By GLOVER M. ALLEN.

BOSTON:
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June, 1909.

AVES.

The following list aims to include all species of birds known to have occurred in New England within historic times. Those only whose occurrence is believed to be natural are given a serial number, while introduced, escaped, or hypothetical species are given in a separate list. The nomenclature is that adopted by the American ornithologists' union, including the changes of the 14th supplement to the Check-List, July, 1908. Of the vernacular names, the first given is in each case that of the Check-List, and those following are local names current for the most part in New England. Unless otherwise stated, the term "migrant" means that the species occurs in both the spring and the fall migrations; "summer resident" implies that the species breeds; "resident," that individual birds remain the entire year in the State. The migration and nesting dates given, are almost wholly those available from published sources and are hence in many cases, somewhat meager. Unusual dates are enclosed within parentheses. If the records for the presence of a given species within any State do not exceed three, the place and date of each are given if known.

For brevity of citation, references to figures of eggs in the works of Bendire, Capen, and Seebohm are given by the name of the author followed by the date, plate, and figure. The titles of these works follow: —

Bendire, C. Life histories of North American birds with special reference to their breeding habits and eggs. Special bull. no. 1, U. S. nat. mus., 1892, viii+446 p., 12 pls.; special bull. no. 3, U. S. nat. mus., 1895, ix+518 pp., 7 pls.

Capen, Elwin A. Oology of New England: a description of the eggs, nests, and breeding habits of the birds known to breed in New England, with colored illustrations of their eggs. Boston, 1886, 4to, 116 pp., 25 pls.

Seebohm, Henry. Coloured figures of the eggs of British birds, with descriptive notices. Sheffield, xxiv+304 pp., pls.

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Colymbus holboellii	—	—	—	+	—	—
auritus	—	—	—	+	—	—
Podilymbus podiceps	—	—	—	+	—	—
Gavia immer	—	—	—	+	—	—
arctica	—			?		?
stellata	—	—	—	+	—	—
Lunda cirrhata	—					
Fratercula arctica	—	+		—	?	
Cepphus grylle	+	—		+	—	—
Uria troile	—		?	+	?	?
lomvia	—	—	—	+	—	—
Alca torda	—	—		+	—	—
Plautus impennis	—	—		—	—	—
Alle alle	—	—	—	+	—	—
Megalestris skua				—		
Stercorarius pomarinus	+			+	—	
parasiticus	—	—		+	—	—
longicaudus	—		—	—		—
Pagophila alba				—		
Rissa tridactyla	—	—	—	+	—	—
Larus hyperboreus	—	—	?	+	—	
leucopterus	+			—		—
kumlieni	—			—		—
marinus	—	—		+	—	—
argentatus	—	—	—	+	—	—
delawarensis	—	—		+	—	—
atricilla	—		—	—	—	—
philadelphia	—	—	—	+	—	—
Xema sabinii	—			—	?	
Gelochelidon nilotica	+			—	?	
Sterna caspia	—	—		+	—	
maxima				—		
sandvicensis acuflavida				—		
forsteri				—		
hirundo	—	—	—	+	—	—
paradisaea	—			—		—
dougalli	—	—		+	—	—
antillarum	—	—		+	—	—

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Sterna fuscata	—	—	+	—	—	—
Hydrochelidon nigra surinamensis	—	—	—	+	—	—
Rynchops nigra	—			+		—
Fulmarus glacialis	+			—		
Puffinus borealis				+	—	
gravis	—	—		—	—	—
griseus	—			+	—	
Aestrelata hasitata		—	—			
Daption capensis	—					
Oceanodroma leucorhoa	—	—	—	+	—	—
Oceanites oceanicus	—	—	?	+	—	—
Sula leucogastra				—		?
bassana	+	—		+	—	—
Phalacrocorax carbo	+		—	—	—	—
auritus	—	—	—	+	—	—
Pelecanus erythrorhynchos	—	—		—		
occidentalis				—		—
Fregata aquila	?			?		—
Mergus americanus	—	—	—	+	+	—
serrator	—	—	—	+	—	—
Lophodytes cucullatus	—	—	—	—	+	—
Anas platyrhynchos	—	—	—	+	—	—
rubripes	—	—	—	+	—	—
Chaulelasmus streperus	—	—	—	—	+	—
Mareca penelope			?	—	—	
americana	—	—	—	+	—	—
Nettion crecca	—			—		—
carolinensis	—	—	—	+	—	—
Querquedula discors	—	+	—	+	—	—
Spatula clypeata	—	—	—	+	—	—
Dafila acuta	—	—	—	+	—	—
Aix sponsa	—	—	—	+	—	—
Marila americana	—	—	—	+	—	—
vallisneria	—		—	+	—	—
marila	—	—	—	+	+	—
affinis	—	—	—	+	—	—
collaris	—	—		+	—	—
Clangula clangula americana	—	—	—	+	—	—
islandica	+	—		+		—
Charitonetta albeola	—	—	—	+	—	—
Harelda hyemalis	—	—	—	+	—	—
Histrionicus histrionicus	+	—		—	—	
Camptorhynchus labradorius	—			+		—

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Somateria mollissima borealis	+			—	?	
dresseri	—	—		+	—	—
spectabilis	—	—		—	—	—
Oidemia americana	—	—	—	+	—	—
deglandi	—	—	—	+	—	—
perspicillata	—	—	—	+	—	—
Erismatura jamaicensis	—	—	—	+	—	—
Nomonyx dominicus			+	—		
Chen hyperborea	—	—	—	+	—	—
nivalis	—			—		—
caerulescens		—		+	—	
Anser albifrons gambeli			?	—		
Branta canadensis	—	—	—	+	—	—
hutchinsii	—			?		?
bernicla glaucogastra	—	—	—	+	—	—
nigricans				—		
leucopsis	?		—	—		—
Olor cygnus	—					
columbianus	?	—	—	+	—	—
buccinator		—		—		?
Guara alba			—			—
Plegadis autumnalis		—		+		—
Mycteria americana	—		—	—	—	
Botaurus lentiginosus	—	—	—	+	—	—
Ixobrychus exilis	—	+	—	+	—	—
Ardea herodias	—	—	—	+		—
Herodias egretta	—	—	—	—	+	—
Egretta candidissima			—	—		—
Florida caerulea	—	—	?	+	—	—
Butorides virescens	—	—	—	+	—	—
Nycticorax nycticorax naevius	—	—	—	+	—	—
Nyctanassa violacea	—			+	—	
Grus americana			—	—		
canadensis					—	
mexicana		—	—	—		—
Rallus elegans	—			+	—	—
crepitans	—	—	—	+	?	—
virginianus	—	—	—	+	—	—
Porzana carolina	—	—	—	+	—	—
Coturnicops noveboracensis	—	—	—	+	—	—
Creciscus jamaicensis	?			—		—
Crex crex	—				—	—
Ionornis martinica	—	—	?	—	+	—

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Gallinula galeata	—	—	—	+	—	—
Fulica americana	—	—	—	+	—	—
Phalaropus fulicarius	—	—	—	+	—	—
Lobipes lobatus	—	—		+	—	—
Steganopus tricolor	—	—		+	+	—
Recurvirostra americana	—		—	—		—
Himantopus mexicanus	—	—		—		
Philohela minor	—	—	—	+	—	—
Gallinago delicata	—	+	—	+	—	—
Macrorhamphus griseus	—	—		+	—	—
scolopaceus				+	—	
Micropalama himantopus	—	+		+	—	—
Tringa canutus	—	—		+	—	—
Arquatella maritima	—	—	?	+	—	—
Pisobia maculata	+	+	—	+	—	—
fuscicollis	—	—	—	+	—	—
bairdii	—	—		+	—	—
minutilla	—	—	—	+	—	—
Pelidna alpina				—		
sakhalina	—	—		+	—	—
Erolia ferruginea	+			—	?	—
Ereunetes pusillus	—	—	—	+	—	—
mauri		—		+	—	—
Calidris leucophaea	—	—	—	+	—	—
Limosa fedoa	—	—	—	+	—	—
haemastica	—	+	—	+	—	—
Totanus melanoleucus	—	—	—	+	—	—
flavipes	—	—	—	+	—	—
Helodromas solitarius	—	—	—	+	—	—
Catoptrophorus semipalmatus	—	—	—	+	—	—
inornatus				+		—
Pavoncella pugnax	—	—		—	—	
Bartramia longicauda	—	—	—	+	—	—
Tryngites subruficollis	—	—	?	+	—	—
Actitis macularia	—	—	—	+	—	—
Numenius americanus	—	—		+	—	—
hudsonicus	—	—		+	—	—
borealis	—	—		+	—	—
Squatarola squatarola	—	—	—	+	—	—
Charadrius dominicus	—	+	—	+	—	—
Oxyechus vociferus	—	—	—	+	—	—
Aegialitis semipalmata	—	—	—	+	—	—
meloda	—	—	?	+	—	—

	Me.	N. H.	Vt.	Mass.	R. I.	Conn.
Ochthodromus wilsonius		?	?	—	?	—
Arenaria interpres				—		
morinella	—	—	—	+	—	—
Haematopus palliatus	—			+		—
Colinus virginianus	—	—	—	+	—	—
Canachites canadensis canace	+	—	—	—		
Bonasa umbellus			—	+	—	—
togata	—	—	—	—		
Lagopus lagopus	—			—	?	
Tympanuchus cupido	?			+	—	—
Meleagris gallopavo silvestris	—	—	—	—	—	—
Ectopistes migratorius	+	—	—	+	—	—
Zenaidura macroura carolinensis	—	—	—	+	—	—
Starnoenas cyanocephala				+		
Cathartes aura septentrionalis	—	+	—	—	—	—
Catharista urubu	—		—	—		—
Elanoides forficatus		?	?	—		—
Circus hudsonius	—	—	—	+	—	—
Accipiter velox	—	—	—	+	—	—
cooperii	—	—	—	+	—	—
Astur atricapillus	—	—	—	+	—	—
Buteo borealis	—	+	—	+	—	—
lineatus	—	—	—	+	—	—
swainsoni	—		—	—		
platypterus	—	—	—	+	—	—
Archibuteo lagopus sancti-johannis	—	—	—	+	—	—
Aquila chrysaëtos	+	—	—	+	—	—
Haliaeetus leucocephalus	+	—	—	+	—	—
Falco islandus	—	?		?		
rusticolus	—					
gyrfalco	—		?	—	—	
rusticolus obsoletus	+	—		—	+	
peregrinus anatum	—	—	—	+	—	—
columbarius	—	—	—	+	—	—
tinnunculus				—		
sparverius	—	—	—	+	—	—
Pandion haliaëtus carolinensis	—	—	—	+	—	—
Aluco pratincola			—	+	—	—
Asio wilsonianus	—	—	—	+	+	—
flammeus	—	—	—	+	—	—
Strix varia	+	—	—	+	—	—
Scotiaptex nebulosa	+	—	+	—	—	—
Glaux funerea richardsoni	+	—	—	—	—	—

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Glaux acadicus	—	—	—	+	—	—
Otus asio	—	—	—	+	—	—
Bubo virginianus	—	—	—	+	—	—
subarcticus	—			—		
heterocnemis	—					
Nyctea nyctea	—	—	—	+	—	—
Surnia ulula caparoch	+	+	—	—	—	—
Speotyto cunicularia hypogaea				—		
Coccyzus americanus	—	—	—	+	—	—
erythrophthalmus	—	—	—	+	—	—
Ceryle alcyon	—	—	—	+	—	—
Dryobates villosus	+	—	—	+	—	—
pubescens medianus	—	—	—	+	—	—
Picoides arcticus	+	—	—	—		—
americanus	+	—	—	—		
Sphyrapicus varius	—	—	—	+	—	+
Phloeotomus pileatus abieticola	+	+	—	—		—
Melanerpes erythrocephalus	—	—	—	+	—	—
Centurus carolinus				—	+	—
Colaptes auratus luteus	—	—	—	+	—	—
Antrostomus carolinensis				—		—
vociferus	—	—	—	+	—	—
Chordeiles virginianus	—	—	—	+	—	—
Chaetura pelagica	—	—	—	+	—	—
Trochilus colubris	—	—	—	+	—	—
Muscivora forficata			—			—
Tyrannus tyrannus	—	—	—	+	—	+
dominicensis				—		
verticalis	—					
Myiarchus crinitus	—	—	—	+	—	—
Sayornis phoebe	—	—	—	+	—	—
saya				—		
Nuttallornis borealis	—	—	—	+	—	—
Myiochanes virens	—	—	—	+	—	—
Empidonax flaviventris	+	—	—	+	—	—
virescens			—	—		—
traillii alnorum	—	+	—	+		—
minimus	—	—	—	+	—	—
Otocoris alpestris	—	—	—	+	—	—
praticola	—	—	—	+	—	—
hoyti						—
Cyanocitta cristata	—	—	—	+	—	—
Perisoreus canadensis	+	—	—	—		
Corvus corax principalis	+	—	—	—		—

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Corvus brachyrhynchos	—	—	—	+	—	—
ossifragus			?	—		—
Sturnus vulgaris	—			—		—
Dolichonyx oryzivorus	—	—	—	+	—	+
Molothrus ater	—	—	—	+	—	—
Xanthocephalus xanthocephalus	—			—		—
Agelaius phoeniceus	—	—	—	—	+	—
fortis						—
Sturnella magna	—	—	—	+	—	—
Icterus spurius	—	—	—	—	+	+
galbula	—	—	—	+	—	—
bullocki	—					
Euphagus carolinus	—	—	—	+	—	—
Quiscalus quiscula		—	?	—	—	—
aeneus	—	—	—	+	—	—
Hesperiphona vespertina	—	—	—	+		—
Pinicola enucleator leucura	—	—	—	+	—	—
Carpodacus purpureus	—	—	—	+	—	—
Loxia curvirostra minor	—	—	—	+	—	—
leucoptera	—	+	—	+	—	—
Acanthis hornemannii exilipes	—	—	?	+		
linaria	—	—	—	+	—	—
holboellii	—			—		
rostrata	—	?		+	—	—
"brewsteri"				—		
Astragalinus tristis	—	—	—	+	—	—
Spinus pinus	—	—	—	+	—	—
spinus				—		
Plectrophenax nivalis	—	—	—	+	—	—
Calcarius lapponicus	—	—	—	+	—	—
ornatus	—			+		
Pooecetes gramineus	—	—	—	+	—	—
Passerculus princeps	—	—		+	—	—
sandwichensis savanna	—	—	—	+	—	—
Coturniculus savannarum australis	—	—	—	+	—	—
Ammodramus henslowii		—	—	—	—	—
caudacutus	—	—	?	+	—	—
nelsoni	—			—		—
subvirgatus	—			+	—	—
maritimus	—			+	+	—
Chondestes grammacus				—		
Zonotrichia leucophrys	—	—	—	+	—	—
albicollis	—	—	—	+	—	—
Spizella monticola	—	—	—	+	—	—

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Spizella passerina	—	—	—	+	—	—
breweri				—		
pusilla	—	—	—	+	—	—
Junco hyemalis	+	—	—	+	—	—
montanus				—		
Melospiza melodia	—	—	—	+	—	—
lincolnii	—	—	—	+	+	+
georgiana	—	—	—	+	—	+
Passerella iliaca	—	—	—	+	—	—
Pipilo erythrophthalmus	—	—	—	+	—	—
Cardinalis cardinalis	—		—	—		—
Zamelodia ludoviciana	+	—	—	+	—	—
Guiraca caerulea		?	?	—	—	
Passerina cyanea	+	—	—	+	—	—
Spiza americana	—			—	—	—
Calamospiza melanocorys				—		
Piranga ludoviciana	—			—		—
erythromelas	—	—	—	+	—	—
rubra	—	?	?	—	+	—
Progne subis	—	—	—	+	—	—
Petrochelidon lunifrons	—	—	—	+	—	—
Hirundo erythrogaster	—	—	—	+	—	—
Iridoprocne bicolor	—	—	—	+	—	—
Riparia riparia	—	—	—	+	—	—
Stelgidopteryx serripennis		—	—	—		+
Bombycilla garrula	—	—	—	—		—
cedrorum	—	—	—	+	—	—
Lanius borealis	—	—	—	+	—	—
ludovicianus						—
migrans	+	—	+	+	—	—
Vireosylva olivacea	—	—	—	+	—	—
philadelphica	—	—	—	—	—	—
gilva	—	—	—	+	—	—
Lanivireo flavifrons	—	—	—	+	—	—
solitarius	+	—	—	+	—	—
Vireo griseus	?	?	—	+	—	—
bellii		—				
Mniotilta varia	—	—	—	+	—	—
Protonotaria citrea	—		?	+	—	
Helmitheros vermivorus	?	?	—	—		+
Helminthophila pinus			?	+	—	+
chrysoptera		—	—	+	—	—
rubricapilla	—	—	—	+	—	—
celata	?	—		+	—	—

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Helminthophila peregrina	+	—	—	+	—	—
Compsothlypis americana usneae	—	—	—	+	—	—
Dendroica tigrina	+	—	—	+	—	—
aestiva	—	—	—	+	—	—
caerulescens	—	—	—	+	—	—
coronata	—	—	—	+	—	—
auduboni				—		?
magnolia	—	—	—	+	—	—
cerulea				—	—	—
pensylvanica	—	—	—	+	—	+
striata	—	—	—	+	—	—
blackburniae	+	—	—	+	—	—
castanea	—	—	—	+	—	—
dominica			—	—		—
virens	—	—	—	+	—	+
vigorsii	—	—	—	+	—	—
palmarum		—	—	—	—	—
hypochrysea	+	—	—	+	—	—
discolor		—	—	+	—	—
Seiurus aurocapillus	—	—	—	+	—	—
Seiurus noveboracensis	—	—	—	+	—	—
notabilis						—
motacilla	—	?	?	+	—	—
Oporornis formosa			—	—	—	—
agilis	—	—	—	+	—	—
philadelphia	+	+	—	—	—	—
Geothlypis trichas	—	—	—	+	—	—
Icteria virens	—	?	—	+	—	—
Wilsonia citrina	—		?	—	+	+
pusilla	—	—	—	+	—	—
canadensis	—	—	—	+	—	+
Setophaga ruticilla	—	—	—	+	—	—
Anthus rubescens	—	—	—	+	—	—
Mimus polyglottos	—	—	—	+	—	—
Dumetella carolinensis	—	—	—	+	—	—
Toxostoma rufum	—	—	—	+	—	—
Thryothorus ludovicianus	—	—	?	+	—	—
Thryomanes bewickii	?	—				
Troglodytes aedon	—	—	—	+	—	—
Nannus hiemalis	—	—	—	+	—	—
Cistothorus stellaris	—	—		+	—	—
Telmatodytes palustris			—	+	—	—
Certhia familiaris americana	—	—	—	+	—	—
Sitta carolinensis	—	—	—	+	—	—

	Me.	N.H.	Vt.	Mass.	R. I.	Conn.
Sitta canadensis	—	—	—	+	—	—
Baeolophus bicolor	—	?	?			—
Penthestes atricapillus	—	—	—	+	—	—
hudsonicus	+	—	—	—	—	—
Regulus satrapa	—	—	—	+	—	—
calendula	—	—	—	+	—	—
Polioptila caerulea	—	?	?	+	—	—
Hylocichla mustelina	—	—	—	+	—	—
fuscescens	—	—	—	+	—	—
salicicola				—	—	—
aliciae	—	—	—	+	—	—
bicknelli	—	—	—	—	—	—
ustulata swainsonii	—	+	—	+	—	—
guttata pallasii	—	—	—	+	—	—
Planesticus migratorius	—	—	—	+	—	—
Ixoreus naevius				+		
Sialia sialis	—	—	—	+	—	—

AVES.

COLYMBIDAE.

1. COLYMBUS HOLBOELLII (Reinhardt) Ridgway.

Holboell's grebe; Red-necked grebe.

Podiceps holbollii Reinh., Vidensk. meddel. naturh. forh. Kjöbenhaven for 1853, 1854, p. 76. "GRÖNLAND....JULIANEHAABS DISTRIKT."

Podiceps rubricollis Lath. Audubon, Birds of Amer., 1844, vol. 7, p. 312 pl. 480.

Fresh and salt water; nests among rushes in sloughs.

ME.—Uncommon winter resident coastwise. Sept.–April 24.

N. H.—Uncommon migrant and coastwise winter resident. Oct.–May (June).

VT.—Rare migrant: Middlebury; Wells River; Windsor, spring.

MASS.—Uncommon migrant and winter resident, mainly coastwise. (Sept.) Oct. 10–May 24.

R. I.—Uncommon winter resident coastwise. Oct. 23–May 2.

CONN.—Uncommon winter resident coastwise. Oct. 19–spring.

2. COLYMBUS AURITUS Linné.

Horned grebe; Devil diver; Hell diver; Little diver; Tinker; Tinker loon.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 135. "IN SUMMIS EUROPAE & AMERICA LACUBUS."

Podiceps cornutus Linné. Audubon, Birds of Amer., 1844, vol. 7, p. 316, pl. 481. Egg, Capen, 1886, pl. 24, fig. 3.

Salt and fresh water; nests among rushes in marshes.

PYGOPODES. COLYMBI.

COLYMBIDAE.

ME.— Common migrant, mainly coastwise; rare winter, and in northeastern part, rare summer resident.

N. H.— Uncommon migrant and winter resident, mainly coastwise. Oct.–April.

VT.— Rare migrant.

MASS.— Common migrant and winter resident, mainly coastwise. Oct. 1–May 6 (June 1, Springfield).

R. I.— Common winter resident coastwise. Oct. 23–April 24 (May).

CONN.— Common winter resident coastwise; accidental in summer (Melrose, July 26, 1882). Sept.–May (July 26).

3. PODILYMBUS PODICEPS (Linné) Lawrence.

Pied-billed grebe; Dabchick; Devil diver; Diedapper; Dipper; Frog-in-throat; Hell diver; Water witch.

Chapman, Handb. birds east. No. Amer., 1895, p. 57; Bird-life, 1898, pl. 2. Egg, Capen, 1886, pl. 24, fig. 5.

Colymbus podiceps Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 136. "IN AMERICA SEPTENTRIONALI."

Freshwater rivers, ponds, swamps; nests among reeds in swamps.

ME.— Common migrant, mainly coastwise; less common summer resident. April–May 19; summer; Sept. 1–Nov. 13 (late Nov.). Eggs, June 6.

N. H.— Uncommon migrant and rare summer resident. Mar.–Nov.

VT.— Rare summer resident. Spring–Oct. 19.

MASS.— Rare spring, common fall migrant, and uncommon local summer resident; accidental in winter. (Feb.) Mar. 1–Dec. 10. Eggs, April 23–June 28.

R. I.— Uncommon migrant and summer resident. April–Oct. 22. Eggs, June 6.

CONN.— Common migrant, mainly in fall, and rare summer resident. April–summer; Sept.–Nov. (Dec. 25, 1908, South Norwalk).

GAVIIDAE.

4. GAVIA IMMER (Brunnich) A. O. U. comm.

Loon; Big loon; Call-up-a-storm; Great northern diver.

Colymbus immer Brunn., Ornith. borealis, 1764, p. 38. "E FAEROA."

Urinator imber (Gunnerus). Chapman, Handb. birds east. No. Amer., 1895, p. 58; Bird-life, 1898, pl. 3. Egg, Capen, 1886, pl. 24, fig. 2.

Salt and fresh water; nests on shores of lakes.

ME., N. H.— Common migrant, less common winter and summer resident. Eggs, June 11–19 (July).

VT.— Uncommon summer resident.

MASS.— Common migrant and winter resident, mainly coastwise; rare summer resident inland (formerly Springfield); a few non-breeding birds summer offshore.

R. I.— Common migrant and winter resident coastwise; a few non-breeding birds summer offshore. Sept. 15–May 28; summer.

CONN.— Common winter resident coastwise; formerly a rare summer resident (Easthampton). Oct.–April 29.

5. GAVIA ARCTICA (Linné) Allen.

Black-throated loon or diver.

Colymbus arcticus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 135. "IN EUROPA & AMERICA BOREALI." Audubon, Birds of Amer., 1844, vol. 7, p. 295, pl. 477. Egg, Seebohm, 1896, p. 78, pl. 21, fig. 1.

Seacoasts; nests on the ground.

ME.— Rare winter visitor: China, Kennebec Co., April 19, 1899; Cutler, Dec. 8, 1881.

MASS.— Doubtfully recorded.

CONN.— Doubtfully recorded (? near Southbridge, Mass.).

PYGOPODES. CEPPHI.

GAVIIDAE.

6. GAVIA STELLATA (Pontoppidan) A. O. U. comm.

Red-throated loon; Cape-race; Little loon; Red-throated diver; Scape-grace.

Colymbus stellatus Pontopp., Danske atlas, 1763, vol. 1, p. 621. (Based on Willughby.)

Colymbus septentrionalis Linné. Audubon, Birds of Amer., 1844, vol. 7, p. 299, pl. 478. Egg, Seebohm, 1896, p. 78, pl. 21, fig. 2.

Salt water mainly, sometimes on lakes; nests on the ground.

ME., N. H.— Common migrant and winter resident, mainly coastwise. (Aug. 16) Sept. 22–(June 22).

VT — Rare migrant. Nov. 1.

MASS.— Uncommon spring, common fall migrant and winter resident, mainly coastwise; casual in summer. Aug. 27–April 8 (July 2).

R. I.— Common migrant and winter resident coastwise; a few non-breeding birds summer offshore. Oct.1–April 27 (summer).

CONN.— Common winter resident, coastwise. Oct.–May.

ALCIDAE.

7. LUNDA CIRRHATA (Pallas) Pallas.

Tufted puffin.

Alca cirrhata Pallas, Spic. zool., 1769, fasc. 5, p. 7, pl. 1; pl. 2, figs. 1–3. "IN MARI INTER KAMTSCHATKAM ET AMERICAM ARCHIPELAGUMGUE KURILUM."

Mormon cirrhatus Lath. Audubon, Birds of Amer., 1844, vol. 7, p. 234, pl. 462.

Rocky sea coasts; nests in burrows.

ME.— Accidental visitor: mouth of Kennebec River, winter of 1831–32.

ALCIDAE

8. FRATERCULA ARCTICA (Linné) Schaffer.

Puffin; Paroqueet; Sea parrot.

Alca arctica Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 130. "IN EUROPAE BOREALIS OCEANO."

Mormon arcticus Linné. Audubon, Birds of Amer., 1844, vol. 7, p. 238, pl. 464. Egg, Capen, 1886, pl. 24, fig. 6.

Rocky seacoasts; nests in burrows.

ME.— Common winter resident coastwise, and rare summer resident (Matinicus Rock and Machias Seal Island).

N. H.— Uncommon winter visitor (at Isles of Shoals).

MASS.— Uncommon winter visitor coastwise. Oct. 16–March.

R. I.— Doubtfully reported.

9. CEPPHUS GRYLLE (Linné) Brehm.

Black guillemot; Pigeon murre; Sea pigeon.

Alca grylle Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 130. "IN EUROPAE BOREALIS OCEANO."

Uria grylle (Linné). Audubon, Birds of Amer., 1844, vol. 7, p. 272, pl. 474. Egg, Capen, 1886, pl. 24, figs. 7, 8.

Rocky seacoasts; nests in deep crevices of rocks.

ME.— Common winter resident coastwise; less common summer resident from Knox Co. eastward. Eggs, June 15–23.

N. H.— Uncommon winter visitor coastwise.

MASS.— Uncommon winter visitor coastwise. Sept.–April 19 (May).

R. I.— Rare winter visitor. Nov. 18–April.

CONN.— Rare winter visitor coastwise: Stony Creek, Dec., 1887.

PYGOPODES. CEPPHI.

ALCIDAE.

10. Uria troile (Linné) Latham.

Murre; Foolish guillemot; Guillemot.

Coues, Key No. Amer. birds, ed. 5, 1903, vol. 2, p. 1082, figs. 742, 743.

Colymbus troille (sic) Linné, Fauna Suec., ed. 2, 1761, p. 52. "in alto mari septentrionali."

Alca troile (Linné). Dresser, Birds of Europe, 1871–81, vol. 8, pl. [621]. Egg, Capen, 1886, pl. 24, fig. 9; pl. 25, fig. 1–3.

Rocky seacoasts; nests on sea cliffs.

Me.— Rare winter visitor: Eastport, Dec. 27, 1886; Scarborough.

Vt.— Doubtfully recorded.

Mass.— Rare winter visitor: "Massachusetts" (Society collection).

R. I.— Doubtfully recorded.

Conn.— ? Rare winter visitor (Merriam, probably in error for *U. lomvia*).

11. Uria lomvia (Linné) Bryant.

Brünnich's murre; Brünnich's guillemot; Ice-bird; Large-billed guillemot; Sea crow.

Alca lomvia Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 130. "in Europa boreali."

Uria brunnichii Sabine. Audubon, Birds of Amer., 1844, vol. 7, p. 265, pl. 472. Egg, Seebohm, 1896, p. 94, pl. 26, figs. 5, 6.

Rocky seacoasts; nests on sea cliffs.

Me.— Common winter visitor coastwise, casual inland; a doubtful breeding record (Penobscot Bay, M. Hardy). Nov. 23–Mar.

N. H.— Irregular winter visitor coastwise; occasional inland. Nov. 25–Mar.

ALCIDAE.

VT.— Irregular winter visitor. Nov.–Jan.

MASS.— Uncommon, irregular winter visitor coastwise; occasional inland. Nov. 21–Mar. 14 (April 15).

R. I.— Uncommon and irregular winter visitor. Nov. 15–Feb. 23.

CONN.— Irregular winter visitor, sometimes common. Nov. 18–Feb. 16.

12. ALCA TORDA Linné.

Razor-billed auk; Razor-bill; Tinker murre; Turre.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 130. "IN EUROPAE BOREALIS OCEANO." Audubon, Birds of Amer., 1844, vol. 7, p. 247, pl. 466. Egg, Capen, 1886, pl. 25, fig. 4–6.

Rocky seacoasts; nests in rock crevices.

ME.— Common winter visitor coastwise; said to have nested formerly.

N. H.— Uncommon winter visitor coastwise. Nov.–Mar.

MASS.— Uncommon winter visitor coastwise. Nov. 1–April 15.

R. I.— Rare winter visitor coastwise. Nov. 15–Feb. 4.

CONN.— Rare winter visitor coastwise.

13. PLAUTUS IMPENNIS (Linné) Steenstrup.

Great auk; Garefowl.

Alca impennis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 130. "IN EUROPA ARCTICA." Audubon, Birds of Amer., 1844, vol. 7, p. 245, pl. 465. Egg, S. Grieve, Great Auk, or Garefowl, London, 1885, pls. 1, 2 (opp. pp. 108, 109).

Formerly a coastwise species, breeding at Funk Id., near Newfoundland, and at a few places on the European coast; last specimen killed in 1844.

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ALCIDAE.

ME., N. H., MASS.— Formerly a winter visitor coastwise.

R. I., CONN.— Probably occurred formerly as a winter visitor coastwise (bones in shell heaps at Block Id., R. I.).

14. ALLE ALLE (Linné) Stejneger.

Dovekie; Ice-bird; Knotty; Little auk; Pine-knotty; Rotche; Sea dove.

Alca alle Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 131. "IN EUROPAE, AMERICAE ARCTICAE OCEANO."

Mergulus alle Linné. Audubon, Birds of Amer., 1844, vol. 7, p. 257, pl. 469. Egg, Seebohm, 1896, p. 95, pl. 26, fig. 3.

Rocky coasts; nests on ledges or in crevices of sea cliffs.

ME.— Uncommon winter visitor coastwise, casual inland; Late Nov.–Mar. 15.

N. H.— Uncommon winter visitor coastwise; casual inland.

VT.— Accidental winter visitor.

MASS.— Uncommon winter visitor, coastwise; casual inland. (Sept.) Nov. 4–May 1.

R. I.— Rare and irregular winter visitor coastwise; casual inland. Nov. 14–April 27.

CONN.— Rare and irregular winter visitor coastwise; casual inland. (Sept.) Nov. 10.

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STERCORARIIDAE.

15. MEGALESTRIS SKUA (Brünnich) Ridgway.

Skua; Great Skua; Sea-hen.

Catharacta skua Brünn., Ornith. borealis, 1764, p. 33. "E FEROA & ISLANDIA."

Megalestris catarrhactes (Linné). Saunders, Cat. birds British mus., 1896, vol. 25, p. 315.

LONGIPENNES.

STERCORARIIDAE.

Stercorarius catarrhactes (Linné). Dresser, Birds of Europe, 1871–81, vol. 8, pl. [609]. Egg, Seebohm, 1896, p. 118, pl. 37, figs. 3, 4.

Pelagic; nests on rocky cliffs or tundras.

MASS.—Rare visitor offshore: Georges Banks, July, 1878; Nantucket Shoals, Oct. 11, 1883; Polluck Rip, Sept. 10, 1884.

16. STERCORARIUS POMARINUS (Temminck) Vieillot.

Pomarine jaeger.

Lestris pomarinus Temm., Man. d'ornith., 1815, p. 514. "LES REGIONS DU CERCLE ARCTIQUE." Audubon, Birds of Amer., 1844, vol. 7, p. 186, pl. 451. Egg, Seebohm, 1896, p. 116, pl. 37, fig. 6.

Largely marine; nests on the ground.

ME.—Uncommon migrant, casual in summer. May; (June 23, 24); July 14–late Oct.

MASS.—Uncommon migrant, occasional in summer. May 23; July 5–Sept. 28.

R. I.—Uncommon migrant offshore, mainly in fall. Oct.

17. STERCORARIUS PARASITICUS (Linné) Schäffer.

Parasitic jaeger; Gull chaser; Marlinspike; Richardson's jaeger; Robber gull; Sea hen.

Larus parasiticus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 136. "INTRA TROPICUM CANCRI, EUROPAE, AMERICAE, ASIAE."

Lestris richardsonii Swains. Audubon, Birds of Amer., 1844, vol. 7, p. 190, pl. 452. Egg, Seebohm, 1896, p. 116, pl. 37, figs. 1, 2.

Largely marine; nests on the ground.

ME.—Uncommon migrant offshore; casual in summer. May–June; (July) Aug.–Oct.

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STERCORARIIDAE.

N. H.— Uncommon migrant offshore. Sept.

MASS.— Uncommon migrant and summer visitor offshore; rare in winter. May 31–Oct. 14 (Jan., Feb.).

R. I.— Rare migrant offshore: Charlestown Beach, three, Sept. 2, 1897.

CONN.— Rare migrant offshore: Bridgeport; Portland, fall, 1875.

18. STERCORARIUS LONGICAUDUS Vieillot.

Long-tailed jaeger; Buffon's jaeger or skua; Marlinspike; Whiptail.

Vieill., Nouv. dict. d'hist. nat., 1819, vol. 32, p. 157. "LE NORD DE L'EUROPE, DE L'ASIE ET DE L'AMÉRIQUE."

Lestris parasiticus Linné. Audubon, Birds of Amer., 1844, vol. 7, p. 192, pl. 453. Egg, Seebohm, 1896, p. 117, pl. 37, fig. 5.

Largely marine; nests on the ground.

ME.— Rare migrant offshore.

VT.— Accidental migrant: West Castleton, Sept. 7, 1877.

MASS.— Rare migrant. Spring; Aug. 24–Sept. 29.

CONN.— Rare or accidental visitor: Community Lake, Wallingford, Aug. 30, 1873.

LARIDAE.

19. PAGOPHILA ALBA (Gunnerus) Coues.

Ivory gull.

Larus albus Gunn., in Leem's Beskriv. Finmark. Lapp., 1767, p. 285 (note). NORTHERN NORWAY.

Larus eburneus Gmel. Audubon, Birds of Amer., 1844, vol. 7 p. 150, pl. 445. Egg, Seebohm, 1896, p. 115, pl. 32, fig. 3.

Arctic seas, following the pack ice; nests on rocky cliffs.

LONGIPENNES.

LARIDAE.

ME.— The Boardman record refers to a New Brunswick specimen.

MASS.— Accidental winter visitor: Monomoy Id., Dec. 1, 1886.

20. RISSA TRIDACTYLA (Linné) Bonaparte.

Kittiwake; Frost-bird; Jack gull; Meterick; Pinny owl or Pinyole; Snow gull; Winter gull.

Larus tridactylus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 136. "IN EUROPA SEPTENTRIONALI." Audubon, Birds of Amer., 1844, vol. 7, p. 146, pl. 444. Egg, Samuels, Ornith. and ool. N. E., 1867, pl. 4, fig. 3.

Maritime; nests on sea cliffs.

ME.— Common fall and winter visitor offshore; casual inland, and in summer. Nov.–April (June; July 11, 1903, Jericho Bay, barren bird; July 14, 1907, off Portland).

N. H.— Common fall and winter visitor offshore. Nov. 1–spring.

VT.— Rare winter visitor: Enosburg Falls, Nov. 12, 1906; St. Albans; St. Johnsbury.

MASS.— Common fall and winter visitor offshore, casual inland. Sept. 6–Mar. 10.

R. I.— Common fall and winter visitor offshore. Nov.–Mar. 23.

CONN.— Uncommon fall and winter visitor offshore. Fall–April 14.

21. LARUS HYPERBOREUS Gunnerus.

Glaucous gull; Burgomaster; Owl gull; White minister.

Gunnerus, in Leem's Beskriv. Finmark. Lapp., 1767, p. 226 (note), p. 283 (note). No locality.

Larus glaucus Brünn. Audubon, Birds of Amer., 1844, vol. 7, p. 170, pl. 449. Egg, Seebohm, 1896, p. 112, pl. 32, figs. 4, 5.

Seacoasts; nests on cliffs.

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LARIDAE.

ME.— Rare winter visitor. Late Nov.–April 27.

N. H.— Rare winter visitor: Hampton, about Feb. 20, 1886, and in May.

VT.— Doubtfully recorded.

MASS.— Rare winter visitor. Nov. 29–April 23 (May 26, 1907, Ipswich).

R. I.— Rare winter visitor: Newport, Mar. 12, 1900 (three); Dec. 1901.

22. LARUS LEUCOPTERUS Faber.

Iceland gull; White-winged gull.

Faber, Prodr. Isl. ornith., 1822, p. 91. "IM WINTER. . . .NACH ISLAND." Saunders, Cat. birds British mus., 1896, vol. 25, p. 296. Audubon, Birds of Amer., 1844, vol. 7, pl. 447. Egg, Seebohm 1896, p. 113, pl. 33, fig. 3.

Seacoasts; nests on the ground.

ME.— Rare winter visitor. Nov.–April.

MASS.— Rare winter visitor. Nov. 4–Mar. 20.

CONN.— Rare winter visitor: Stamford, Feb. 16, 1894.

23. LARUS KUMLIENI Brewster.

Kumlien's gull; Lesser glaucous-winged gull.

Brewst., Bull. Nuttall ornith. club, 1883, vol. 8, p. 216. "CUMBERLAND SOUND, ARCTIC AMERICA." Dwight, Auk, 1906, vol. 23, p. 36–41, pl. 1, figs.

Coastwise; breeds on Arctic coasts.

ME.— Probably occasional winter visitor: near Eastport (may have been N. B.); "seen" in Portland Harbor and at Scarborough.

MASS.— Rare winter visitor: Boston Harbor, Feb. 22, 1905;

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LARIDAE.

Plymouth, Jan. 5, 1888 (Dwight, immature); Boston and Swampscott, two or more, Dec. 29, 1907–Mar. 13, 1908.

CONN.—Rare winter visitor: Stamford, Feb. 16, 1894 (Dwight, immature).

24. LARUS MARINUS Linné.

Great black-backed gull; Black-back; Black minister; Coffin carrier; Ghost-bird; Minister; Saddle-back.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 136. "IN EUROPA." Audubon, Birds of Amer., 1844, vol. 7, p. 172, pl. 450. Egg, Capen, 1886, pl. 22, figs. 2, 3.

Seacoasts; nests on the ground.

ME.—Common migrant and winter resident; casual summer visitor. Sept. 21–April (summer).

N. H.—Common winter resident coastwise. Oct. 15–spring.

MASS.—Common winter resident coastwise; a few non-breeding birds summer. Late Aug.–May 1 (summer).

R. I.—Common winter resident coastwise. Aug. 26–April 23.

CONN.—Uncommon winter resident coastwise. Fall–Mar.

25. LARUS ARGENTATUS Pontoppidan.

Herring gull; Gray gull; Sea gull; Winter gull.

Pontopp., Danske atlas, 1763, vol. 1, p. 622. No locality. Audubon, Birds of Amer., 1844, vol. 7, p. 163, pl. 448. Egg, Capen, 1886, pl. 22, fig. 4–6.

Seacoasts, large rivers and lakes; nests on the ground or rarely in trees.

ME.—Abundant resident, breeding mainly on outer islands, rarely on inland lakes. Eggs, (May 14) June 12–July 18 (Aug. 19).

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LARIDAE.

N. H.— Common migrant and winter resident; less common summer visitor coastwise.

Vt.— Uncommon migrant and rare summer resident (Lake Champlain).

Mass.— Common migrant and winter resident, less common summer visitor coastwise; not now known to breed (nested at Wepecket Id., 1882, Mackay).

R. I.— Common migrant and winter resident, mainly coastwise; a few non-breeding birds summer. Sept. 10–May 22; summer.

Conn.— Common migrant and winter resident, mainly coastwise; a few non-breeding birds summer. Oct.–May; summer.

26. Larus delawarensis Ord.

Ring-billed gull.

Ord, Guthrie's Geogr., hist., and commercial grammar, 2d Amer. ed., 1815, vol. 2, p. 319. "on the Delaware below Philadelphia." Chapman, Handb. birds east. No. Amer., 1895, p. 73.

Larus zonorhynchus Richardson. Audubon, Birds of Amer., 1844, vol. 7, p. 152, pl. 446.

Seacoasts; nests on the ground.

Me., N. H.— Uncommon migrant and rare winter resident coastwise. Mar.–April; Oct.–Nov. (winter).

Mass.— Uncommon migrant coastwise. Spring; July 17–Oct. 30.

R. I.— Uncommon migrant and winter resident. Nov.–April.

Conn.— Uncommon migrant and winter resident.

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LARIDÆ.

27. LARUS ATRICILLA Linné.

Laughing gull; Black-headed gull; Black-poll.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 136. "AMERICA." Audubon, Birds of Amer., 1844, vol. 7, p. 136, pl. 443. Egg, Capen, 1886, pl. 23, fig. 1–3.

Seacoasts; nests on the ground.

ME.— Rare summer resident (Metinic Green Id., Western Egg Rock). (Late April–Sept. Eggs, June 30–July 5.

VT.— Rare visitor: Bristol, May, 1883; St. Albans.

MASS.— Uncommon summer resident south of Cape Cod (Muskeget Id.; formerly at Egg Rock, Nahant); elsewhere a rare visitor. May 7–Oct. 1 (late Nov.). Eggs, June 7–July 10.

R. I.— Rare summer visitor: Seakonnet Point, Sept., 1884; Seakonnet Point, Aug. 24, 1903.

CONN.— Rare summer visitor; may breed rarely.

28. LARUS PHILADELPHIA (Ord) Gray.

Bonaparte's gull.

Sterna philadelphia Ord, Guthrie's Geogr., hist., and commercial grammar, 2d Amer. ed., 1815, vol. 2, p. 319. No locality; probably PHILADELPHIA.

Larus bonapartii Richardson. Audubon, Birds of Amer., 1844, vol. 7, p. 131, pl. 442. Egg, Seebohm, 1896, p. 106, pl. 36, fig. 7.

Salt and fresh water; nests on stumps or in low trees.

ME.— Common migrant, rare in winter. April–June 20; July 25–Nov. 20 (winter).

N. H.— Common migrant and rare winter resident coastwise. May; Aug. 3–Oct. 20 (winter).

VT.— Rare migrant; ? "summer resident."

MASS.— Common migrant, mainly coastwise, and rare winter resident. Mar. 10–June 3; July 24–Nov. 25 (winter).

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R. I.— Common migrant and uncommon winter resident. Aug. 5–May 22.

CONN.— Common migrant, mainly in fall. Aug. 1–Nov.; (winter ?)–April 21.

29. XEMA SABINII (Sabine) Leach.

Sabine's gull; Fork-tailed gull.

Larus sabinii J. Sab., Trans. Linn. soc. London, 1818, vol. 12, p. 520, pl. 29. "WEST COAST OF GREENLAND. . . .LATITUDE 75° 29′ N., AND LONGITUDE 60° 9′ W." Audubon, Birds of Amer., 1844, vol. 7, p. 127, pl. 441. Egg, Seebohm, 1896, p. 105, pl. 36, fig. 8.

Arctic seas and coasts; nests on the ground.

ME.— Accidental visitor: Brothers Id., near Portland, Sept. 22, 1899; Scarborough, May 31, 1877; (*nec* Calais, 1878).

MASS.— Accidental visitor: Boston Harbor, Sept. 27, 1874; Cape Cod, 1888; North Truro, Aug. 21, 1889.

R. I.— Doubtfully recorded.

30. GELOCHELIDON NILOTICA (Hasselquist) Stejneger.

Gull-billed tern; Marsh tern.

Sterna nilotica Hasselq., Reise nach Pal., deutsch. ausg., 1762, p. 325. [NILE RIVER, EGYPT].

Sterna anglica Montagu. Audubon, Birds of Amer., 1844, vol. 7, p. 81, pl. 430. Egg, Seebohm, 1896, p. 99, pl. 31, figs. 6, 8.

Seacoasts; nests on the ground.

ME.— Accidental visitor, several instances. March; May 21; Sept.

MASS.— Accidental visitor: Ipswich, Sept. 1871.

R. I.— Doubtfully recorded.

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LARIDAE.

31. STERNA CASPIA Pallas.

Caspian tern; Squawker.

Pallas, Nov. comm. petrop., 1770, vol. 14, pt. 1, p. 582, pl. 22, fig. 2. "MARE CASPIUM ET CIRCA OSTIUM IAICI." Dresser, Birds of Europe, 1871–81, vol. 8, pl. [584]. Egg, Seebohm, 1896, p. 100, pl. 31, fig. 2.

Sterna tschegrava Lepech. Chapman, Handb. birds east. No. Amer., 1895, p. 79, fig. 61, *a*.

Seacoasts and lakes; nests on the ground.

ME.— Rare migrant. May 11; Aug. Sept. (Oct. 16).

N. H.— Rare migrant: Hampton, 1899.

MASS.— Rare spring and uncommon fall migrant. Early May; Aug. 8–Sept. 26.

R. I.— Rare migrant. May 10; July 27–Oct.

32. STERNA MAXIMA Boddaert.

Royal tern; Cayenne tern.

Bodd., Tabl. d. planch. enlum. d'hist. nat., 1783, p. 58. Based on Buffon: "CAYENNE." Chapman, Handb. birds east. No. Amer., 1895, p. 79, fig. 61, *b*.

Sterna cayana Lath. Audubon, Birds of Amer., 1844, vol. 7, p. 76, pl. 429.

Seacoasts and lagoons; nests on the ground.

MASS.— Accidental visitor: Chatham, July 29, 1889; Ipswich, July 17, 1904; Nantucket, July 1, 1874.

33. STERNA SANDVICENSIS ACUFLAVIDA (Cabot) Ridgway.

Cabot's tern.

Sterna acuflavida Cabot, Proc. Boston soc. nat. hist., 1847, vol. 2, p. 257. "TANCAH, ON THE COAST OF YUCATAN."

LONGIPENNES.

LARIDAE.

Sterna cantiaca Gmel. Audubon, Birds of Amer., 1844, vol. 7, p. 87, pl. 431.

Seacoasts; nests on the ground.

MASS.— Accidental visitor: Chatham, Aug., 1865; Monomoy Id., Oct. 2, 1888.

34. STERNA FORSTERI Nuttall.

Forster's tern.

Nutt., Manual ornith. U. S. and Canada, 1834, vol. 2, p. 274. Based on Forster: "CHURCHILL RIVER," HUDSON BAY. Saunders, Cat. birds British mus., 1896, vol. 25, p. 47.

Sterna havellii Audubon, Birds of Amer., 1844, vol. 7, p. 103, pl. 434.

Marshes and sea coasts; nests in grassy marshes.

MASS.— Rare fall migrant. Aug.–Oct. 2.

35. STERNA HIRUNDO Linné.

Common tern; Mackerel gull; Medrake or Medrick; Redshank; Sea swallow; Summer gull; Wilson's tern.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 137. "EUROPA." Chapman, Handb. birds east. No. Amer., 1895, p. 81, fig. 61, *c*; Audubon, Birds of Amer., 1844, vol. 7, p. 97, pl. 433. Egg, Capen, 1886, pl. 23, figs. 4, 5.

Seacoasts; nests on sandy or pebbly shores.

ME.— Abundant summer resident coastwise. May 3–Sept. 2 (late Sept.). Eggs, late May–Aug. 19.

N. H.— Common migrant coastwise, casual inland; formerly summer resident at Isles of Shoals. May; Aug.–Sept.

VT.— Rare visitor: Bennington, May 30, 1907; St. Albans.

LONGIPENNES

LARIDAE

MASS.—Locally common summer resident coastwise, casual inland; accidental in winter (Woods Hole, Jan. 17, 1894, Feb. 20, 1894). May 4–Oct. 30 (Nov. 14, winter). Eggs, May 20–July 30.

R. I.—Common summer resident coastwise. May 10–Oct. 6. Eggs, June 5–July 11.

CONN.—Common local summer resident coastwise. Eggs, June 20.

36. STERNA PARADISAEA Brunnich.

Arctic tern.

Brünn., Ornith. borealis, 1764, p. 46. "CHRISTIANSOE," DENMARK. Chapman, Handb. birds east. No. Amer., 1895, p. 82, fig. 61, *d*.

Sterna arctica Temm. Audubon, Birds of Amer., 1844, vol. 7, p. 107, pl. 436. Egg, Capen, 1886, pl. 23, fig. 6–8.

Seacoasts; nests on the ground.

ME.—Common summer resident coastwise. May–Sept. Eggs, June 28.

MASS.—Uncommon local summer resident coastwise; occasional inland. May–Oct.

CONN.—Migrant.

37. STERNA DOUGALLI Montagu.

Roseate tern; Mackerel gull.

Montagu, Ornith. dict., suppl., 1813, p. [386], 1 pl. "WEST HIGHLANDS OF SCOTLAND." Chapman, Handb. birds east. No. Amer., 1895, p. 83, fig. 61, *e*; Dresser, Birds of Europe, 1871–81, vol. 8, pl. [581]. Egg, Capen, 1886, pl. 23, fig. 9–11.

Seacoasts; nests on sandy or pebbly shores.

LONGIPENNES.

LARIDAE.

ME.— Rare summer visitor coastwise; not certainly known to breed. May–Aug. 31.

N. H.— Formerly rare summer resident at Isles of Shoals.

MASS.— Locally common summer resident coastwise. May 1–Oct. 4. Eggs, May 20–July 30.

R. I.— Common migrant and summer visitor; not known to nest. May–Oct.

CONN.— Common migrant and local summer resident. Eggs, June 20.

38. STERNA ANTILLARUM (Lesson) Coues.

Least tern; Little striker; Oyt.

Sternula antillarum Less., Descr. mamm. et. ois., 1847, p. 256. "ANTILLES . . . . PRINCIPALEMENT GUADELOUPE."

Sterna minuta Linné. Audubon, Birds of Amer., 1844, vol. 7, p. 119, pl. 439. Egg, Capen, 1886, pl. 23, fig. 12–14.

Seacoasts and lakes; nests on the ground.

ME.— Formerly rare summer resident in Casco Bay.

N. H.— Rare migrant: Hampton.

MASS.— Uncommon summer resident, from Cape Cod south (formerly at Ipswich); elsewhere now casual. (April 27) May 4–Oct. Eggs, May 31–June 29.

R. I.— Now rare but formerly a more common summer visitor coastwise. –Aug. 20.

CONN.— Rare migrant and summer visitor, formerly common.

39. STERNA FUSCATA Linné.

Sooty tern; Egg-bird.

Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 228. "IN INSULA DOMINICENSI."

LONGIPENNES.

LARIDAE.

Sterna fuliginosa Lath. Audubon, Birds of Amer., 1844, vol. 7, p. 90, pl. 432. Egg, Seebohm, 1896, p. 104, pl. 30, fig. 4–6.

Seacoasts; nests on sandy shores.

ME.—Accidental visitor: Parkman, Oct. 5, 1878.

N. H.—Accidental visitor: Newmarket, about Sept. 14, 1878; *once* Lake Winnepesaukee).

VT.—Accidental visitor: Lake Champlain, early Sept. 1876; Rutland, 1876.

MASS.—Accidental visitor: Chatham, Sept. 1877; Lawrence, Oct. 29, 1876; Williamstown, Sept. 1876.

R. I.—Accidental visitor: (?) Newport, 1877; Point Judith, Sept. 1876; Woonsocket, July 16, 1897.

CONN.—Accidental visitor. Sept.

40. HYDROCHELIDON NIGRA SURINAMENSIS (Gmelin) Stejneger.

Black tern.

Sterna surinamensis Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 604. "SURINAM."

Sterna nigra Linné. Audubon, Birds of Amer., 1844, vol. 7, p. 116, pl. 438.

Fresh and salt water; nests in fresh marshes.

ME.—Rare fall migrant. Aug. 14–28.

N. H.—Uncommon migrant, mainly coastwise. June 10; Aug. 24–Sept. 30.

VT.—Rare migrant: Lake Bomoseen, June 6, 1883.

MASS.—Rare spring and uncommon early fall migrant. June 7–10; (July 11) Aug. 8–Sept. 26.

R. I.—Uncommon migrant, mainly in fall, coastwise. Spring; July 30–Sept. 18.

CONN.—Uncommon migrant coastwise, mainly in fall. Aug. 24.

LONGIPENNES.

RYNCHOPIDAE.

41. RYNCHOPS NIGRA Linné.

Black skimmer; Cut-water; Scissor-bill; Sea-crow; Sea-dog; Razor-bill.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 138. "AMERICA. Audubon, Birds of Amer., 1844, vol. 7, p. 67, pl. 428.

Seacoasts; nests on sandy shores.

ME.— Accidental visitor: Matinicus Id.; off Saco, Aug. 31, 1879; Washington Co.; Wells Bay.

MASS.— Occasional summer visitor coastwise, said to have bred about 1830 at Muskeget Id.; casual inland (Springfield). July 16–Aug. 19.

CONN.— Accidental visitor: Stonington (Linsley).

TUBINARES.

PROCELLARIIDAE.

42. FULMARUS GLACIALIS (Linné) Stephens.

Fulmar; Marbleheader; Noddy; Oil-bird.

Procellaria glacialis Linné, Fauna Suec., ed. 2, 1761, p. 51. "IN MARI SEPTENTR. INTRA CIRCULUM ARCTICUM." Audubon, Birds of Amer., 1844, vol. 7, p. 204, pl. 455. Egg, Seebohm, 1896, p. 73, pl. 20, fig. 5.

Mainly pelagic; nests in shallow burrows or on cliffs.

ME.— Rare winter visitor offshore: "coast of Maine," March, 1879.

MASS.— Rare fall and winter visitor offshore: Georges Bank. Oct. 28–winter.

TUBINARES

PROCELLARIIDAE.

43. PUFFINUS BOREALIS Cory.

Cory's shearwater.

Cory, Bull. Nuttall ornith. club, 1881, vol. 6, p. 84. "NEAR CHATHAM ISLAND, CAPE COD, MASS."

Pelagic; nest unknown.

MASS.—Uncommon summer and fall visitor offshore. Aug. 2–Nov.

R. I.—Uncommon summer and fall visitor offshore. Aug. 15–Oct. 26.

44. PUFFINUS GRAVIS (O'Reilly) Salvin.

Greater shearwater; Hag; Hagdon.

Procellaria gravis O'Reilly, Greenland, adjacent seas, and northwest pass., 1818, p. 140, pl. 12, fig. 1. "LATITUDE OF CAPE FAREWELL AND STATEN HOOK," GREENLAND.

Puffinus cinereus Lath. Audubon, Birds of Amer., 1844, vol. 7, p. 212, pl. 456.

Pelagic; nest and eggs unknown.

ME.—Common summer visitor offshore. Aug. 10.

N. H.—Summer visitor offshore: Portsmouth.

MASS.—Common summer and fall visitor offshore; casual inland (Dover). May 26–Nov. ? Dec. 31).

R. I.—Uncommon summer and fall visitor offshore.

CONN.—Uncommon summer and fall visitor offshore.

45. PUFFINUS GRISEUS (Gmelin) Finsch.

Sooty shearwater; Black hag or hagdon.

Godman, Monogr. petrels, 1908, pt. 2, p. 145, pl. 38.

Procellaria grisea Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 561. "IN HEMISPHAERIO AUSTRALI, INTER 35° & 50°."

Pelagic; nests in burrows on sea islands.

TUBINARES.

PROCELLARIIDAE.

ME.— Common summer visitor offshore. May–summer.

MASS.— Common summer and fall visitor offshore. (Mar.) July 4–Oct.

R. I.— Uncommon summer visitor offshore. (Mar. 28) May–Sept.

46. AESTRELATA HASITATA (Kuhl) Coues.

Black-capped petrel; Diablotin.

Procellaria hasitata Kuhl, Beitr. z. zool., 1820, pt. 2, p. 142. No locality.

Oestrelata haesitata (Kuhl). Godman, Monogr. petrels, 1908, pt. 3, p. 184, pl. 49.

Mainly pelagic; nests in burrows on islands.

N. H.— Accidental visitor: Pittsfield, about Aug. 30, 1893.

VT.— Accidental visitor: last of August, 1893 (place unknown).

47. DAPTION CAPENSIS (Linné) Stephens.

Pintado petrel; Cape pigeon.

Salvin, Cat. birds British mus., 1896, vol. 25, p. 428. Gould, Birds of Australia, 1848, vol. 7, pl. 53.

Procellaria capensis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 132. "AD CAP[ITEM] B[ONAE] SPEI."

Pelagic; nests in burrows on islands of southern hemisphere.

ME.— Accidental visitor: Lake Mooseluckmeguntic, Sept. 1872 (*nec* Harpswell).

48. OCEANODROMA LEUCORHOA (Vieillot) Stejneger.

Leach's petrel; Carey chicken; Mother Carey's chicken.

Procellaria leucorhoa Vieill., Nouv. dict. d'hist. nat., 1817, vol. 25, p. 422. "LES BORDS MARITIMES DE LA PICARDIE," FRANCE.

TUBINARES.

PROCELLARIIDAE.

Thalassidroma leachii Temm. Audubon, Birds of Amer., 1844, vol. 7, p. 219, pl. 459. Egg, Capen, 1886, pl. 24, fig. 1.

Pelagic; nests in colonies on islands, in burrows.

ME.—Abundant summer resident on outer islands from Casco Bay north. May–Oct. 21. Eggs, June 10–Aug. 19.

N. H.—Common migrant offshore; occasional inland in fall. Spring–Nov.

VT.—Accidental visitor: Lake Champlain.

MASS.—Common migrant offshore; casual inland in fall. June 21; Sept. 1–Nov. 25.

R. I.—Uncommon migrant offshore. June 9; Aug. 29–Oct. 14.

CONN.—Uncommon migrant offshore, casual inland. Oct. 27.

49. OCEANITES OCEANICUS (Kuhl) Lichtenstein.

Wilson's petrel; Mother Carey's chicken.

Procellaria oceanica Kuhl, Beitr. z. zool., 1820, pt. 2, p. 136, pl. 10, fig. 1. No locality given.

Thalassidroma wilsonii Bonap. Audubon, Birds of Amer., 1844, vol. 7, p. 223, pl. 460.

Pelagic; nests within Antarctic circle, in burrows.

ME.—Common summer visitor offshore; casual inland (near Augusta). June–Sept. 17.

N. H.—Common summer visitor offshore.

VT.—Accidental visitor: St. Albans (may have been *O. leucorhoa*).

MASS.—Common summer visitor offshore. June 17–Sept. 23.

R. I.—Common summer visitor offshore. July–Aug.

CONN.—Uncommon summer visitor offshore.

STEGANOPODES.

SULIDAE.

50. SULA LEUCOGASTRA (Boddaert) Sclater & Salvin.

Booby; Booby gannet.

Pelecanus leucogaster Bodd., Tabl. d. planch. enlum. d'hist. nat., 1783, p. 57. Based on Buffon.

Sula fusca Linné. Audubon, Birds of Amer., 1844, vol. 7, p. 57, pl. 426.

Seacoasts; nests on the ground.

MASS.— Accidental visitor: Cape Cod, about Sept. 17, 1878 (*nec* Essex Co.).

CONN.— Linsley's record (Guilford) said to refer to *S. bassana*.

51. SULA BASSANA (Linné) Boie.

Gannet; Solan goose; White gannet.

Audubon, Birds of Amer., 1844, vol. 7, p. 44, pl. 425. Egg, Seebohm, 1896, p. 69, pl. 19, fig. 4.

Pelecanus bassanus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 133. "IN SCOTIA, AMERICA."

Coastwise; nests in colonies on a few rocky islets of North Atlantic.

ME., N. H.— Uncommon migrant. April–May; Sept.–Oct. 9.

MASS.— Common migrant offshore. Mar. 26–June 7; Aug. 3–Dec. 21.

R. I.— Uncommon migrant offshore. April–May 16; Sept. 10–Oct. 26.

CONN.— Rare migrant offshore.

STEGANOPODES.

PHALACROCORACIDAE.

52. PHALACROCORAX CARBO (Linné) Leach.

Cormorant; Common cormorant; Shag; Taunton shag; Taunton turkey.

Audubon, Birds of Amer., 1843, vol. 6, p. 412, pl. 415. Coues, Key No. Amer. birds, ed. 5, 1903, vol. 2, p. 963. Egg, Capen, 1886, pl. 21, fig. 8.

Pelecanus carbo Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 133. "IN EUROPA."

Salt water mainly; nests in colonies on sea cliffs.

ME.—Common migrant and uncommon winter resident. Oct.–April 20.

VT.—Rare migrant: Rutland, 1867.

MASS.—Uncommon migrant and rare winter resident coastwise. April–May 14; Sept. 22–Nov. (winter).

R. I.—Uncommon migrant and winter resident. Sept. 15–(June 3).

CONN.—Uncommon migrant and winter resident. Fall–May.

53. PHALACROCORAX AURITUS (Lesson) Grant.

Double-crested cormorant; Shag; Taunton turkey.

Carbo auritus Less., Traité d'ornith., 1831, vol. 1, p. 605. "NOUVELLE-ZÉLANDE."[?]

Phalacrocorax dilophus Coues, Key No. Amer. birds, ed. 5, 1903, vol. 2, p. 963, fig. 676; Audubon, Ornith. biogr., 1835, vol. 3, pl. 257. Egg, Capen, 1886, pl. 22, fig. 1.

Coastal; nests in colonies on sea cliffs.

ME.—Common migrant; rare winter and summer (Black Horse Ledge) resident. Eggs, June 23–July 3.

N. H.—Uncommon migrant coastwise; occasional inland. Spring; Oct.

STEGANOPODES.

PHALACROCORACIDAE.

VT.— Rare migrant: Burlington, Nov.; Cambridge, Dec.; Windsor.

MASS.— Common migrant, mainly coastwise. April 4–June 18 (July 7); Aug. 22–Nov. 24.

R. I.— Common migrant, mainly coastwise. April 22–May 22; (Aug. 21) Sept. 16–Nov.

CONN.— Uncommon migrant, mainly coastwise. April–May; mid-July–Nov. 13.

PELECANIDAE.

54. PELECANUS ERYTHRORHYNCHOS Gmelin.

American white pelican.

Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 571. "IN AMERICA SEPTENTRIONALI."

Pelecanus americanus Audubon, Birds of Amer., 1844, vol. 7, p. 20, pl. 422.

Salt and fresh water; nests on the ground.

ME.— Accidental visitor: Calais; Eliot, pair, June 8, 1897; Saponic Lake, May 28, 1892.

N. H.— Formerly a visitor (Belknap).

MASS.— Accidental visitor: Gloucester, 1886; North Scituate, Oct. 5, 1876; Sandwich, May 13, 1905.

55. PELECANUS OCCIDENTALIS (Linné) Richmond.

Brown pelican.

Pelecanus onocrotalus occidentalis Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 215. "AMERICA."

Pelecanus fuscus Linné. Audubon, Birds of Amer., 1844, vol. 7, p. 32, pls. 423, 424.

Coastal; nests on the ground or in low trees.

STEGANOPODES.

PELECANIDAE.

ME.— The supposed Bar Harbor specimen was an escape brought from South America.

MASS.— Accidental visitor: (? Ipswich, doubtful); Nantucket about 1867 (flock of 13).

CONN.— Accidental visitor: near New Haven.

FREGATIDAE.

56. FREGATA AQUILA (Linné) Reichenbach.

Man-o'-war bird; Frigate-bird; Man-o'-war hawk.

Pelecanus aquilus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 133. "IN INSULA ADSCENSIONIS ALIISQUE PELAGICIS."

Tachypetes aquilus Linné. Audubon, Birds of Amer., 1844, vol. 7, p. 10, pl. 421.

Coastal; nests in colonies, in low trees or on ground.

ME.— Doubtfully recorded from Boothbay.

MASS.— Accidental visitor: New Bedford, Oct. 17, 1893 (record not confirmed).

CONN.— Accidental visitor: Faulkner's Id., autumn, 1859.

ANSERES.

ANATIDAE.

57. MERGUS AMERICANUS Cassin.

American Merganser; Buff-breasted Merganser; Goosander; Pond shelldrake.

Cassin, Proc. acad. nat. sci. Phila., 1853, vol. 6, p. 187. Based on Wilson, no locality; probably New Jersey or Pennsylvania.

Mergus merganser Linné. Audubon, Birds of Amer., 1843, vol. 6, p. 387, pl. 411. Egg, Capen, 1886, pl. 21, fig. 5.

Mainly in fresh water; nests in hollow trees.

ANSERES.

ANATIDAE.

ME.— Common migrant and winter resident; less common summer resident inland. Eggs, late May–June 19.

N. H.— Common migrant; less common summer resident from White Mts. north, and winter resident in open streams south of White Mts.

VT.— Uncommon summer resident; rare winter resident in open streams. Eggs, June 18.

MASS.— Uncommon migrant and winter resident, mainly on freshwater lakes and streams; said to have bred formerly. Oct. 12–May 1; summer (Springfield).

R. I.— Uncommon migrant and winter resident, mainly on ponds and rivers. Nov.–May 2.

CONN.— Uncommon migrant and winter resident, mainly on ponds and rivers. Fall–April 17.

58. MERGUS SERRATOR Linné.

Red-breasted Merganser; Shelldrake.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 129. "IN EUROPA." Audubon, Birds of Amer., 1843, vol. 6, p. 395, pl. 412. Egg Capen, 1886, pl. 21, fig. 6.

Salt and fresh water; nests on the ground.

ME.— Common migrant and winter resident coastwise; uncommon summer resident on coastal islands or inland lakes. Eggs, June 21.

N. H.— Common migrant and winter resident mainly coastwise. Nov.–April.

VT.— Uncommon migrant. April; Oct.

MASS.— Common migrant and winter resident, mainly coastwise; a few non-breeding birds summer offshore. Sept. 23–May 26 (summer).

ANSERES.

ANATIDAE.

R. I.— Common migrant and winter resident coastwise; a few non-breeding birds summer offshore. Oct. 29–May 19 (summer).

CONN.— Common migrant and winter resident, mainly coastwise. Fall–April 14.

59. LOPHODYTES CUCULLATUS (Linné) Reichenbach.

Hooded Merganser; Hairy-crown; Hairy-head; Hooded shelldrake; Sawbill diver; Water pheasant.

Mergus cucullatus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 129. "AMERICA." Audubon, Birds of Amer., 1843, vol. 6, p. 402, pl. 413. Egg, Capen, 1886, pl. 21, fig. 7.

Fresh water mainly; nests in hollow trees.

ME.— Rare migrant and summer resident. Mar. 31–May; summer; Sept.–late Nov.

N. H.— Rare migrant and summer resident (Lake Umbagog). Mar.–Nov.

VT.— Rare summer resident. Mar. 27–Sept.

MASS.— Uncommon migrant. Mar. 18–April 18; (Aug. 11, Cambridge) Oct. 7–Nov. 30 (Dec. 22).

R. I.— Uncommon migrant and rare winter resident. Oct.–May.

CONN.— Uncommon migrant and rare winter resident. Nov.–Mar. 6.

60. ANAS PLATYRHYNCHOS Linné.

Mallard; Greenhead; Wild mallard.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 125. "IN EUROPAE MARITIMIS."

Anas boschas Linné. Audubon, Birds of Amer., 1843, vol. 6, p. 236, pl. 385.

Rivers, ponds, and in migrations, seacoasts; nests in marshes.

ANSERES.

ANATIDAE.

Me.— Rare migrant and winter resident. April; Oct. 1–Nov. 15 (winter).

N. H.— Rare migrant. Spring; Oct.–Nov. 9.

Vt.— Rare migrant.

Mass.— Uncommon migrant; rare in winter. Mar. 27–May 1; Sept. 22–Dec. 17 (Dec. 26, Jan. 9).

R. I.— Rare migrant and winter resident. Oct.–April.

Conn.— Rare spring and uncommon fall migrant. Spring; Sept. 30–Nov.

61. Anas rubripes (Brewster) A. O. U. comm.

Black duck; Black mallard; Dusky duck; Red-legged black duck; Spring black duck; Winter black duck.

Anas obscura rubripes Brewst., Auk, 1902, vol. 19, p. 184. "Lake Umbagog (New Hampshire shore)."

Anas obscura Gmel. Audubon, Birds of Amer., 1843, vol. 6, p. 244, pl. 386. Egg, Capen, 1886, pl. 20, fig. 10.

Salt and fresh water; nests in marshes.

Me., N. H.— Common migrant, less common summer and (coastwise) winter resident. Eggs, April 28 (Me.).

Vt.— Common migrant, less common summer resident. Eggs, May.

Mass.— Common migrant and winter resident (mainly coastwise); uncommon local summer resident. Eggs, April 19–May.

R. I.— Common migrant and winter resident, rare summer resident. Sept. 29–May; summer. Eggs, May 5–21.

Conn.— Common migrant and winter resident; rare summer resident. Sept.–May; summer.

62. Chaulelasmus streperus (Linné) Bonaparte.

Gadwall; Gray duck.

Anas strepera Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 125. "in

ANSERES.

ANATIDAE.

EUROPAE AQUIS DULCIBUS." Audubon, Birds of Amer., 1843, vol. 6, p. 254, pl. 388. Egg, Seebohm, 1896, p. 37, pl. 14, fig. 3.

Fresh and salt water; nests in marshes.

ME.— Rare migrant. April 29, 1879 (Scarborough); Oct. 27–29.

N. H.— Rare migrant: Hampton; Portsmouth, spring.

VT.— Rare migrant: Otter Creek, spring 1879; St. Albans.

MASS.— Rare migrant. Oct. 2–Nov. 1.

R. I.— Rare migrant. Feb. 26–May 4; Oct. 8–Dec. 1.

CONN.— Rare migrant. Aug.–Oct. 14.

63. MARECA PENELOPE (Linné) Selby.

Widgeon; European widgeon.

Anas penelope Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 126. "IN EUROPAE MARITIMIS & PALUDIBUS." Salvadori, Cat. birds of British mus., 1895, vol. 27, p. 227. Dresser, Birds of Europe, 1871–81, vol. 6, pls. [432, 433]. Egg, Seebohm, 1896, p. 38, pl. 13, fig. 4.

Fresh and salt water; nests on the ground.

VT.— Doubtfully recorded.

MASS.— Accidental visitor: Halifax, Oct. 20, 1899; Marblehead, Dec. 29, 1900; Mass. ? (Samuels).

R. I.— Accidental visitor: Middletown, Sept. 20, 1889.

64. MARECA AMERICANA (Gmelin) Stephens.

Baldpate; American widgeon.

Anas americana Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 526. "AMERICA A CAYENNA INSULISQUE VICINI OCEANI AD SINUM HUDSONIS." Audubon, Birds of Amer., 1843, vol. 6, p. 259, pl. 389.

Fresh and salt water; nests in marshes.

ANSERES.

ANATIDAE.

Me.— Uncommon migrant, mainly coastwise; accidental in winter. Mar. 18–April; Sept.–Nov. 18 (Feb. 20, 1884, Freeport).

N. H.— Uncommon migrant. April; Sept.–Oct.

Vt.— Rare migrant.

Mass.— Uncommon migrant and rare winter resident (Nantucket). Mar. 22–April 17; Sept. 6–Dec. 2 (winter).

R. I.— Uncommon migrant. ? April; Sept. 20–early Dec.

Conn.— Uncommon migrant.

65. Nettion crecca (Linné) Kaup.

European teal; Teal.

Salvadori, Cat. birds British mus., 1895, vol. 27, p. 243.

Anas crecca Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 126. "in Europae aquis dulcibus."

Querquedula crecca (Linné). Dresser, Birds of Europe, 1871–81, vol. 6, pl. [426]. Egg, Seebohm, 1896, p. 40, pl. 16, fig. 3.

Fresh water mainly; nests in marshes.

Me.— Accidental visitor: Casco Bay, April 6, 1903.

Mass.— Accidental visitor: "Massachusetts" (Samuels); Muskeget Id., Mar. 16, 1890; Sagamore, Feb. 20, 1896.

Conn.— Accidental visitor: East Hartford, Nov. 14, 1889.

66. Nettion carolinensis (Gmelin) Baird.

Green-winged teal.

Anas carolinensis Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 533. "in Americae, a Carolina ad sinum Hudsonis, stagnis silvaticis." Audubon, Birds of Amer., 1843, vol. 6, p. 281, pl. 392. Egg, Capen, 1886, pl. 20, fig. 11.

Fresh and salt water; nests in marshes.

Me.— Common migrant. April; Sept. 15–Nov. 15.

N. H.— Uncommon migrant.

ANSERES.

ANATIDAE.

VT.—Common migrant; (?"summer resident"). Mar.; Sept.

MASS.—Uncommon spring and rare fall migrant; accidental in winter. April 4–23; Sept. 6–Dec. 13 (Jan. 1; Feb. 1, 1892, West Barnstable).

R. I.—Uncommon migrant; rare in winter. Mar.; Sept. 2–Nov. 7 (Dec. 30).

CONN.—Uncommon migrant and rare winter resident. Fall–Mar.

67. QUERQUEDULA DISCORS (Linné) Stephens.

Blue-winged teal.

Anas discors Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 205. "IN AMERICA SEPTENTRIONALI." Audubon, Birds of Amer., 1843, vol. 6, p. 287, pl. 393. Egg, Capen, 1886, pl. 20, fig. 12.

Fresh and salt water; nests in marshes.

ME.—Common migrant and in Washington Co., a rare summer resident. (Mar. 8) April–May; summer; Sept. 15–Oct. 16.

N. H.—Uncommon migrant. May; Aug. 15–Nov.

VT.—Uncommon migrant; (?"summer resident"). April–May; fall.

MASS.—Rare spring and common fall migrant; probably once bred. April 11–May 31; (June 8 and 20, Cambridge); Aug. 16–Nov. 26.

R. I.—Rare spring and uncommon fall migrant and rare summer resident (at Sakonnet). May (summer); Aug. 27–Nov. 5. Eggs, May.

CONN.—Rare spring and uncommon fall migrant. Spring; Aug.–Oct. 20.

68. SPATULA CLYPEATA (Linné) Boie.

Shoveler; Spoonbill.

Anas clypeata Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 124. "IN

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EUROPAE MARITIMIS." Audubon, Birds of Amer., 1843, vol. 6, p. 293, pl. 394. Egg, Seebohm, 1896, p. 42, pl. 13, fig. 2.

Fresh and salt water; nests in marshes.

ME.— Rare migrant coastwise. April 14–23; Sept.

N. H.— Rare migrant: Hampton; Rye Beach, Aug. 1872.

VT.— Rare migrant.

MASS.— Rare migrant. Spring; Sept. 17–Nov. 7.

R. I.— Rare migrant. April 10; Oct. 2–28.

CONN.— Rare migrant. (Late July) Aug.–Dec. 8.

69. DAFILA ACUTA (Linné) Bonaparte.

Pintail; Gray duck (♀); Pheasant duck; Sprigtail.

Anas acuta Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 126. "IN EUROPAE MARITIMIS." Audubon, Birds of Amer., 1843, p. 266, pl. 390. Egg, Seebohm, 1896, p. 38, pl. 13, fig. 3.

Fresh and salt water; nests in marshes.

ME.— Rare migrant. Late Mar.–April; Sept. 20–Nov. 7 (late Nov.).

N. H., VT.— Rare migrant.

MASS.— Rare migrant. (Feb. 21) Mar. 8–April 3; Sept. 11–Dec. 21.

R. I.— Uncommon migrant coastwise. Spring; Sept. 4.

CONN.— Uncommon migrant; (? rare winter resident). Mar. 23; fall.

70. AIX SPONSA (Linné) Bonaparte.

Wood duck; Bride duck; Rainbow duck; Regal duck; Summer duck.

Anas sponsa Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 128. "IN AMERICA SEPTENTRIONALI." Audubon, Birds of Amer., 1843, vol. 6, p. 271, pl. 391. Egg, Capen, 1886, pl. 21, fig. 1.

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Freshwater streams and ponds; nests in hollow trees, rarely on the ground.

ME.— Uncommon migrant and summer resident. Mar. 28–late Nov.

N. H.— Uncommon migrant and summer resident. Mar.–Dec.

VT.— Uncommon migrant and summer resident. April 8–Oct. 23.

MASS.— Uncommon migrant and rare summer resident; accidental in winter. (Mar. 10) Mar. 20–April 30; summer; Sept. 15–Nov. 18 (Dec. 31, 1890, So. Weymouth; Jan. 11, 1888, Taunton). Eggs, April 23–May 2.

R. I.— Uncommon migrant and rare summer resident. Mar.–Nov. 11. Eggs, May 10.

CONN.— Uncommon migrant and rare summer resident; accidental in winter. Mar. 18–Oct. (Jan. 9, 1880, Norwich). Eggs, May.

71. MARILA AMERICANA (Eyton) A. O. U. comm.

Redhead; American pochard.

Fuligula americana Eyt., Monogr. Anatidae, 1838, p. 155. "NORTH AMERICA."

Fuligula ferina Linné. Audubon, Birds of Amer., 1843, vol. 6, p. 311, pl. 396.

Fresh and salt water; nests in marshes.

ME.— Rare migrant; said formerly to have bred in Washington Co. Mar. 27; Sept. 21–Nov. 5.

N. H.— Rare fall migrant.

VT.— Rare fall migrant: Lake Champlain.

MASS.— Rare migrant more frequent in fall, and rare winter resident on south coast. Mar. 6–April 3; Oct. 4–Dec. 21 (winter).

R. I.— Rare migrant and winter resident. Oct. 8–Feb. 3.

CONN.— Rare migrant.

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72. MARILA VALLISNERIA (Wilson) A. O. U. comm.

Canvas-back.

Anas valisineria Wils., Amer. ornith., 1814, vol. 8, p. 103, pl. 70, fig. 5. "HUDSON AND DELAWARE....RIVERS....AND IN THE NEIGHBOURHOOD OF THE CHESAPEAKE BAY."

Fuligula valisneriana (Wils.). Audubon, Birds of Amer., 1843, vol. 6, p. 299, pl. 395.

Fresh and salt water; nests in marshes.

ME.— Very rare fall migrant.

VT.— Very rare migrant: Lake Champlain (Perkins).

MASS.— Rare migrant. Mar. 11–31; Oct. 19–Dec. 18 (Jan. 8, Cambridge).

R. I.— Rare migrant. April; Oct. 2–Nov. 16.

CONN.— Rare migrant. May 7.

73. MARILA MARILA (Linné) A. O. U. comm.

Greater scaup; Blackhead; Bluebill; Bluehead; Broadbill; Raft duck; Widgeon.

Anas marila Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 196. "IN EUROPAE ALPINIS IN SVECIA, NORVEGIA, AUSTRIA."

Fuligula marila (Linné). Audubon, Birds of Amer., 1844, vol. 7, p. 355, pl. 498. Egg, Seebohm, 1896, p. 46, pl. 14, fig. 2.

Fresh and salt water; nests in marshes.

ME.— Common coastwise migrant; rare in winter. Oct.–Nov.; (winter); Mar.–April.

N. H.— Uncommon migrant, mainly coastwise. April; Oct.–Dec. 13.

VT.— Uncommon migrant at Lake Champlain.

MASS.— Rare spring, and common fall migrant; winters locally on coast. Mar. 27–May 1; Sept. 18–Dec. 26; winter.

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R. I.— Common migrant and less common winter resident coastwise. Oct. 1–May 1 (July 19, 1900, cripple).

CONN.— Common migrant and uncommon winter resident coastwise. Oct.–May 17 (June).

74. MARILA AFFINIS (Eyton) Bonaparte.

Lesser scaup; Blue-billed shoveler; Creek broadbill; Little blackhead; Little bluebill; Little raft duck; River broadbill.

Fuligula affinis Eyt., Monogr. Anatidae, 1838, p. 157. "NORTH AMERICA."

Fuligula marila (Linné). Audubon, Birds of Amer., 1843, vol. 6, p. 316, pl. 397.

Aythya affinis (Eyt.). Chapman, Handb. birds east. No. Amer., 1895, p. 112.

Fresh and salt water; nests in marshes.

ME.— Rare migrant. Mar.–April; Oct.–Nov.

N. H.— Rare migrant.

VT.— Rare migrant: Lake Champlain; Otter Creek, May 19, 1883.

MASS.— Rare spring and common fall migrant; rare winter resident on south coast. Mar. 2–April 14 (May 5); Oct. 8–Dec. 6 (winter).

R. I.— Uncommon migrant and winter resident. Oct. 15–April.

CONN.— Uncommon migrant and winter resident. Oct.–May 17 (June).

75. MARILA COLLARIS (Donovan) Bonaparte.

Ring-necked duck; Ring-neck scaup.

Anas collaris Donov., British birds, 1809, vol. 6, pl. 147 and text. "SUPPOSED TO HAVE BEEN . . . LINCOLNSHIRE," ENGLAND.

Fuligula rufitorques Bonap. Audubon, Birds of Amer., 1843, vol. 6, p. 320, pl. 398.

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Aythya collaris (Donov.). Chapman, Handb. birds east. No. Amer., 1895, p. 112.

Fresh and salt water; nests in marshes.

ME.— Rare migrant; once bred in Washington Co. Mar. 31–May 1; (summer); Oct. 11–Nov. 2.

N. H.— Rare migrant; Concord, Nov.; Little Bay near Portsmouth.

MASS.— Rare migrant. Mar.–April; Oct. 4–Nov. 30.

R. I.— Rare migrant. Nov. 11.

CONN.— Rare migrant.

76. CLANGULA CLANGULA AMERICANA (Bonaparte) Faxon.

American goldeneye; Garrot; Whistler; Whistle-wing.

Clangula americana Bonap., Geogr. and comparative list birds Europe and No. Amer., 1838, p. 58. "AMERICA."

Fuligula clangula (Linné). Audubon, Birds of Amer., 1843, vol. 6, p. 362, pl. 406. Egg, Capen, 1886, pl. 21, fig. 2.

Fresh and salt water; nests in hollow trees.

ME.— Common migrant and winter resident coastwise; less common summer resident in northern part. Eggs, May 27–June 8.

N. H.— Common migrant and winter resident coastwise or in open rivers; uncommon summer resident (Lake Umbagog).

VT.— Common migrant on Lake Champlain and Connecticut River.

MASS.— Common migrant and winter resident mainly coastwise. Oct. 8–May 1 (July 26, Boston).

R. I.— Common migrant and winter resident coastwise. Nov. 15–April 20.

CONN.— Common migrant and winter resident mainly coastwise. Late Oct.–April 16.

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77. CLANGULA ISLANDICA (Gmelin) Bonaparte.

Barrow's goldeneye.

Anas islandica Gmelin, Syst. nat., 1788, vol. 1, pt. 2, p. 541, "IN ISLANDIA."

Clangula barrowii Swainson and Richardson, Fauna Boreali-Amer., 1831, vol. 2, p. 450, pl. 70.

Fresh and salt water; nests in hollow trees.

ME.— Rare winter visitor coastwise. Jan.–April.

N. H.— Rare winter visitor: Little Bay, Portsmouth.

VT.— Erroneously recorded.

MASS.— Rare winter visitor coastwise. Dec. 7–Feb. 22.

CONN.— Rare winter visitor coastwise: off Portland, Nov. 14, 1897.

78. CHARITONETTA ALBEOLA (Linné) Stejneger.

Bufflehead; Bumble-bee duck; Butterball; Devil diver; Dipper; Hell diver; Spirit duck.

Anas albeola Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 124. "AMERICA."

Fuligula albeola (Linné). Audubon, Birds of Amer., 1841, vol. 6, p. 360, pl. 408.

Fresh and salt water; nests in hollow trees.

ME.— Common migrant and on south coast an uncommon winter resident; said to nest in Washington Co. Late Oct.–April (Mar. 11) (summer).

N. H.— Uncommon migrant and rare winter resident along coastwise. Mar.–April, Oct.–Nov. (winter).

VT.— Uncommon migrant.

MASS.— Uncommon migrant and rare winter resident. Mar. 13–April 8, Oct. 9–Dec. 23 (winter).

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R. I.— Uncommon migrant and rare winter resident coastwise. April; Oct. 13–Dec. 7 (winter).

CONN.— Uncommon migrant and winter resident. Nov.–April 15.

79. HARELDA HYEMALIS (Linné) L. Brehm.

Old squaw; Long-tailed duck; Old injun; Old wife; Scoldenore; Scolder; South-southerly.

Anas hyemalis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 126. "IN EUROPA & AMERICA ARCTICA."

Fuligula glacialis (Linné). Audubon, Birds of Amer., 1843, vol. 6, p. 379, pl. 410. Egg, Seebohm, 1896, p. 50, pl. 15, fig. 3.

Salt and fresh water; nests on the ground.

ME.— Common migrant and winter resident coastwise; a few non-breeding birds summer. Late Nov.–May 21 (summer).

N. H.— Common migrant and winter resident, chiefly coastwise.

VT.— Rare migrant to Lake Champlain and Connecticut Valley. Oct. 24.

MASS.— Common migrant and winter resident, mainly coastwise. Oct. 10–May 22 (June 17).

R. I. — Common migrant and winter resident. Nov. 7–May 4.

CONN.— Common migrant and winter resident coastwise. Oct.–May.

80. HISTRIONICUS HISTRIONICUS (Linné) Boucard.

Harlequin duck; Lord-and-lady; Sea mouse.

Anas histrionica Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 127. "AMERICA."

Fuligula histrionica (Linné). Audubon, Birds of Amer., 1843, vol. 6, p. 374, pl. 409. Egg, Seebohm, 1896, p. 49, pl. 15, fig. 1.

Fresh and salt water; nests on the ground or in hollow trees.

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ME.—Uncommon winter resident about rocky islands. Oct. 19–Mar. (April).

N. H.—Rare winter visitor coastwise. Nov.

MASS.—Rare winter visitor coastwise; casual inland. Nov. 1–Jan.

R. I.—Rare winter visitor coastwise. Nov. 28–Jan. 29.

81. CAMPTORHYNCHUS LABRADORIUS (Gmelin) Bonaparte.

Labrador duck; Pied duck; Sand-shoal duck.

Anas labradoria Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 537. "IN AMERICA BOREALI."

Fuligula labradora Lath. Audubon, Birds of Amer., 1843, vol. 6, p. 329, pl. 400.

Formerly on seacoast; nests on "tops of low fir trees." Last specimen taken in 1875.

ME.—Formerly a winter visitor coastwise.

MASS.—Formerly a winter visitor coastwise; last taken in the State at Swampscott, early September, 1862.

CONN.—Formerly a winter resident (Stratford).

82. SOMATERIA MOLLISSIMA BOREALIS (C. L. Brehm) A. E. Brehm.

Northern eider; Greenland eider.

Platypus borealis C. L. Brehm, Lehrb. naturg. europ. vogel, 1824, vol. 2, p. 813. COASTS AND ISLANDS OF BAFFIN BAY AND DAVIS STRAIT (*fide* H. C. Oberholser).

Somateria mollissima (Linné). Baird, Brewer, and Ridgway, Water birds No. Amer., 1884, vol. 2, p. 72, figs. on p. 77.

Salt water chiefly; nests on the ground.

ME.—Rare winter visitor coastwise. Oct. 19–April 6.

MASS.—Rare winter visitor coastwise. Late Oct.–April 3.

R. I.—Unsatisfactorily recorded from Newport.

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83. SOMATERIA DRESSERI Sharpe.

American eider; Canvasback; Sea duck; Wamp.

Sharpe, Ann. mag. nat. hist., 1871, ser. 4, vol. 8, p. 51. [NORTH AMERICA].

Fuligula mollissima (Linné). Audubon, Birds of Amer., 1843, vol. 6, p. 349, pl. 405. Egg, Capen, 1886, pl. 21, fig. 3.

Salt water chiefly; nests on the ground.

ME.— Common winter, and from Isle au Haut north, rare summer resident. Nov.–April; summer. Eggs, June 15–July 4.

N. H.— Uncommon migrant and winter resident coastwise.

MASS.— Uncommon migrant and winter resident coastwise. Nov. 5–April 19.

R. I.— Uncommon migrant and winter resident coastwise.

CONN.— Rare winter resident coastwise. Fall–(May 29).

84. SOMATERIA SPECTABILIS (Linné) Leach.

King eider.

Anas spectabilis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 123. "IN CANADA, SVECIA."

Fuligula spectabilis (Linné). Audubon, Birds of Amer., 1843, vol. 6, p. 347, pl. 404. Egg, Seebohm, 1896, p. 54, pl. 9, fig. 1.

Salt water chiefly; nests on the ground.

ME.— Uncommon winter resident coastwise. Dec. 11–April 15 (May 29).

N. H.— Rare winter visitor: Hampton.

MASS.— Rare winter visitor coastwise. Oct. 21–April 5.

R. I.— Rare winter visitor coastwise. (Sept. 15) Nov. 27–Feb.

CONN.— Rare winter visitor coastwise. Nov. 4.

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85. OIDEMIA AMERICANA Swainson.

American scoter; Black coot; Butterbill; Butterbill coot; Yellow-billed coot.

Swains., in Swains. and Rich., Fauna Boreali-Amer., 1831, vol. 2, p. 450. "HUDSON'S BAY, LAT. 57°."

Fuligula americana (Swains.). Audubon, Birds of Amer., 1843, vol. 6, p. 343, pl. 403.

Salt and fresh water; nests on the ground.

ME., N. H.— Common migrant and winter resident mainly coastwise; a few non-breeding birds summer offshore.

VT.— Uncommon migrant: St. Johnsbury; Windsor.

MASS.— Common migrant and winter resident; a few non-breeding birds summer offshore. Sept. 8–May 24 (summer).

R. I.— Common migrant and winter resident coastwise. Oct.–May 11.

CONN.— Uncommon migrant and winter resident. Oct. 4–May.

86. OIDEMIA DEGLANDI Bonaparte.

White-winged scoter; May white-wing; Velvet duck; White-winged coot.

Bonap., Rev. crit. de Forn. Europ. de Dr. Degland, 1850, p. 108. "AMERICA."

Fuligula fusca (Linné). Audubon, Birds of Amer., 1843, vol. 6, p. 332, pl. 401.

Salt and fresh water; nests on the ground.

ME., N. H.— Common migrant and winter resident mainly coastwise; a few non-breeding birds summer offshore.

VT.— Rare migrant: Middlebury.

MASS.— Common migrant and winter resident mainly coastwise; a few non-breeding birds summer offshore. Sept. 6–May 25 (summer).

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R. I.— Common migrant and winter resident, mainly coastwise; a few non-breeding birds summer offshore. Sept. 15–May; summer.

CONN.— Abundant migrant and common winter resident, mainly coastwise; a few non-breeding birds summer offshore. Oct. 4–May 15; summer.

87. OIDEMIA PERSPICILLATA (Linné) Stephens.

Surf scoter; Baldheaded coot; Box coot; Gray coot; Hollow-billed coot; Patch-bill coot; Patch-poll coot; Sea coot; Skunk-head.

Chapman, Handb. birds east. No. Amer., 1895, p. 118.

Anas perspicillata Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 125. "CANADA."

Fuligula perspicillata (Linné). Audubon, Birds of Amer., 1843, vol. 6, p. 337, pl. 402. Egg, Seebohm, 1896, p. 52, pl. 15, fig. 2.

Salt water mainly; nests on the ground.

ME., N. H.— Common migrant and winter resident mainly coastwise; a few non-breeding birds summer offshore.

VT.— Rare migrant: Bradford.

MASS.— Common migrant and winter resident coastwise; a few non-breeding birds summer offshore. Sept. 4–May 9; summer.

R. I.— Common migrant and winter resident coastwise; a few non-breeding birds summer offshore. Sept. 1–May 21; summer.

CONN.— Common migrant and winter resident; a few non-breeding birds summer offshore. Sept.–April; summer.

88. ERISMATURA JAMAICENSIS (Gmelin) Salvadori.

Ruddy duck; Booby; Broadbill; Dumb-bird; Foolish coot.

Anas jamaicensis Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 519. "JAMAICA."

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Fuligula rubida Wils. Audubon, Birds of Amer., 1843, vol. 6, p. 324, pl. 399. Egg, Capen, 1886, pl. 21, fig. 4.

Fresh water chiefly; nests in marshes.

ME.— Uncommon migrant, and rare summer resident. April May; (summer); Oct.–Nov.

N. H.— Uncommon migrant, rare in summer; may breed (Newfound Lake, July 11, 1901; Rye Beach, Aug. 22, 1879).

VT.— Uncommon migrant and rare summer resident (Lake Memphremagog).

MASS.— Common migrant; very rare summer resident (Cape Cod). Mar. 20–(summer); Sept. 30–Dec. 14 (Dec. 25, 1902, Woods Hole; Jan. 9, 1909, Jamaica Plain).

R. I.— Common migrant and occasional summer resident. Mar.; Oct. 1–Dec. 22.

CONN.— Common migrant, mainly in fall; rare in summer (June 5, 1893, flock of 5, Portland). Spring; Oct.–Dec. 25.

89. NOMONYX DOMINICUS (Linné) Ridgway.

Masked duck.

Ridgway, Manual No. Amer. birds, 1887, p. 114.

Anas dominica Linné, Syst. nat., ed. 12, 1766, p. 201. "IN AMERICA MERIDIONALI."

Erismatura dominica Eyt. Baird, Cassin, and Lawrence, Birds of No. Amer., 1870, vol. 2, pl. 92.

Fresh water; nests among rushes.

VT.— Accidental visitor (or escape): Alburgh Springs on Lake Champlain.

MASS.— Accidental visitor: Malden, Aug. 27, 1889.

90. CHEN HYPERBOREA (Pallas) Boie.

Lesser snow goose; Mexican goose; Wavy; White brant.

Ridgway, Manual No. Amer. birds, 1887, p. 115. Dresser,

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Birds of Europe, 1871–81, vol. 6, pl. [417], lower fig. Egg, Seebohm, 1896, p. 30, pl. 11, fig. 3.

Anser hyperboreus Pall., Spicilegia zool., 1769, fasc. 6, p. 25. "IN TERRIS BOREALIBUS, AD ORIENTEM 130°. LONGITUDINIS, SIVE CIRCA LENAM ET IANAM FLUVIOS."

Salt and fresh water; nests on the ground.

ME.— Rare fall migrant. Oct. 2–Dec.

N. H.— Rare fall migrant: Lake Umbagog, Oct. 2, 1896; Seabrook.

VT.— Rare fall migrant: Lake Champlain; ? Lunenburg; St. Johnsbury.

MASS.— Rare migrant. April 13, 1908, Townsend; (? July) Oct. 15–Nov. 21.

R. I.— Rare fall migrant. Sept. 3–Oct. 16.

CONN.— Rare fall migrant: Saybrook, fall, 1875; Stratford, Oct. 5, 1842.

91. CHEN HYPERBOREA NIVALIS (Forster) Ridgway.

Greater snow goose; Wavy.

Ridgway, Manual No. Amer. birds, 1887, p. 115.

Anas nivalis Forster, Phil. trans. roy. soc. London, 1772, vol. 62, p. 413. "SEVERN RIVER," HUDSON BAY.

Anser hyperboreus Gmel. Audubon, Birds of Amer., 1843, vol. 6, p. 212, pl. 381, fig. 1.

Salt and fresh water; nests on the ground.

ME.— Now an accidental visitor: Georgetown, April 25, 1903; mouth of Kennebec River, April 7, 1890; Lubec, April 30, 1906.

MASS.— Now an accidental visitor: near Springfield (Morris); various doubtful records.

CONN.— Now an accidental visitor: Stratford, three wintered, 1867–68 (*fide* Averill); also listed by Linsley (1843), but may have been *C. hyperborea*.

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92. CHEN CAERULESCENS (Linné) Gundlach.

Blue goose; Blue wavy.

Ridgway, Manual No. Amer. birds, 1887, p. 114. Elliot, New and heretofore unfigured birds No. Amer., 1869, vol. 2, pl. 43.

Anas caerulescens Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 124. "CANADA."

Salt and fresh water; nests on the ground.

N. H.— Rare fall migrant: Lake Umbagog, Oct. 2, 1896.

MASS.— Rare fall migrant: West Gloucester, Oct. 20, 1876.

R. I.— Rare migrant: Westerly, Mar. 16, 1894. Other records in error for *C. hyperborea*.

93. ANSER ALBIFRONS GAMBELI (Hartlaub) Cones.

American white-fronted goose; Laughing goose.

Anser gambelli (*sic*) Hartl., Rev. and mag. zool., ser. 2, 1852, vol. 4, p. 7. "TEXAS."

Anser albifrons Bechst. Audubon, Birds of Amer., 1843, vol. 6, p. 209, pl. 380.

Fresh and salt water; nests on the ground.

VT.— Doubtfully recorded.

MASS.— Accidental migrant (? formerly regular): Ipswich, Aug. 1907; Plymouth, Nov. 26, 1897; Quincy.

94. BRANTA CANADENSIS (Linné) Bannister.

Canada goose; Wild goose.

Anas canadensis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 123. "CANADA."

Anser canadensis (Linné). Audubon, Birds of Amer., 1843, vol. 6, p. 178, pl. 376. Egg, Seebohm, 1896, p. 35, pl. 12, fig. 2.

Fresh and salt water; nests on the ground, rarely in trees.

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Me.— Common migrant. (Feb. 28) Mar. 5–May; Oct. 13–Dec. 8.

N. H., Vt.— Common migrant. Mar. 11–April; Oct.–Dec. 7.

Mass.— Common migrant, formerly summer resident (said to have bred at Lexington, late April, 1888); may winter rarely on south coast. Mar. 8–June 5; (Aug. 3) Sept. 21–Dec. 30 (Jan. 10; Jan. 31).

R. I.— Common migrant. Mar. 13–May 7; Sept. 17–Dec. 29.

Conn.— Common migrant and less common winter resident. Mar.–May 22; Oct.–winter.

95. Branta canadensis hutchinsii (Richardson) Coues.

Hutchins's goose; ? Southern goose.

Coues, Key to No. Amer. birds, ed. 5, 1903, vol. 2, p. 905.

Anser hutchinsii Rich., in Swainson and Rich., Fauna Boreali-Amer., 1831, vol. 2, p. 470. "Melville Peninsula," Arctic America. Audubon, Ornith. biogr., 1835, vol. 3, p. 226, pl. 277.

Fresh and salt water; nests on the ground.

Me.— Accidental migrant: Cape Elizabeth, Nov. 13, 1894; Portland, spring 1899; Rangeley.

Mass.— Supposed to occur as a migrant.

Conn.— ? Uncommon fall migrant; said to arrive later than *B. canadensis* and to pass at once south (Merriam, 1877).

96. Branta bernicla glaucogastra (C. L. Brehm) Coues.

White-bellied brant; Blue brant; Brant; May brant.

Bernicla glaucogaster C. L. Brehm, Handb. d. naturgesch. aller vögel Deutschl., 1831, p. 849. "aus dem hohen Norden im Herbste an die Küsten der deutschen Ostsee."

Anser bernicla Linné. Audubon, Birds of Amer., 1843, vol. 6, p. 203, pl. 379.

Salt water; nests on the ground.

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ME.— Common coastwise migrant. April 27–May; Oct.–Nov.

N. H.— Uncommon coastwise migrant, casual inland.

VT.— Rare migrant.

MASS.— Common coastwise migrant; uncommon winter resident on south coast. Mar. 12–May 17 (June 2); Sept. 12–Dec. 12 (winter).

R. I.— Common migrant and rare winter resident offshore. Mar. 24–April 28; Nov.–Dec. 16 (winter).

CONN.— Common migrant and occasional winter resident offshore. April 14–May; Oct. 15 (winter).

97. BRANTA NIGRICANS (Lawrence) Bannister.

Black brant.

Anser nigricans Lawr., Ann. lyceum nat. hist. New York, 1846, vol. 4, p. 171, pl. 12. "EGG HARBOR, N. J."

Seacoasts; nests on the ground.

MASS.— Accidental visitor: Chatham, spring, 1883.

98. BRANTA LEUCOPSIS (Bechstein) Bannister.

Barnacle goose.

Anas leucopsis Bechst., Ornith. taschb. Deutschl., 1803, p. 424. NORTHERN REGIONS OF THE EARTH; GERMANY IN MIGRATION.

Anser leucopsis (Bechst.). Audubon, Birds of Amer., 1843, vol. 6, p. 200, pl. 378. Egg, Seebohm, 1896, p. 34, pl. 10, fig. 2.

Seacoasts and grassy flats; nests on the ground among rocks.

ME.— Doubtfully reported from near Portland about 1878.

VT.— Accidental visitor: Marshfield, 1878.

MASS.— Accidental visitor: North Chatham, Nov. 1, 1895.

CONN.— Recorded from Stonington (Linsley).

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99. Olor cygnus (Linné) Bonaparte.

Whooping swan; Whooper; Wild swan.

Anas cygnus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 122. "in Europa, America septentrionali."

Cygnus musicus Bechst. Dresser, Birds of Europe, 1871–81, vol. 6, p. [433], pl. [419], fig. 4. Egg, Seebohm, 1896, p. 29, pl. 7, fig. 1.

Seacoasts, lakes, swamps; nests on the ground.

Me.— Accidental visitor: Poke-a-moon-shine Lake, Washington Co., Sept. 10, 1903.

100. Olor columbianus (Ord) Stejneger.

Whistling swan; American swan.

Anas columbianus Ord, in Guthrie's Geogr., hist., and commercial grammar, 2d Amer. ed., 1815, p. 319. Based on Lewis and Clarke: "below the great narrows of the Columbia."

Cygnus americanus Sharpless. Audubon, Birds of Amer., 1843, vol. 6, p. 226, pl. 384.

Salt and fresh water; nests on the ground.

Me.— Unsatisfactorily recorded from mouth of Kennebec River Nov., 1881; and near Crawford Lake, Sept. 10, 1903.

N. H.— Rare migrant: Great Bay (*bis*), Dec. 16, 1902, and —; Seabrook, Oct. 18, 1878.

Vt.— Rare migrant: Alburg, Lake Champlain.

Mass.— Rare migrant and winter resident (at Nantucket) formerly commoner. Oct. 16–Dec. 27 (winter–Mar. 4).

R. I.— Rare migrant: Quonocontaug Pond, Nov. 9, 1879; Westerly, Nov. 13, 1879.

Conn.— Rare migrant. Middle Mar.; fall–Nov. 2.

ANSERES.

ANATIDAE.

101. OLOR BUCCINATOR (Richardson) Wagler.

Trumpeter swan.

Cygnus buccinator Rich., in Swainson and Rich., Fauna Boreali-Amer., 1831, vol. 2, p. 464. "HUDSON'S BAY." Audubon, Birds of Amer., 1843, vol. 6, p. 219, pls. 382, 383.

Fresh and salt water; nests on the ground.

ME.— Once erroneously recorded for *O. cygnus*.

N. H.— Formerly a migrant (Belknap).

MASS.— Believed to have occurred formerly as a migrant.

R. I., CONN.— Doubtfully reported, and believed to have occurred formerly as a migrant.

HERODIONES. IBIDES.

IBIDIDAE.

102. GUARA ALBA (Linné) Stejneger.

White Ibis.

Scolopax alba Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 145. "AMERICA."

Ibis alba (Linné). Audubon, Birds of Amer., 1843, vol. 6, p. 54, pl. 360.

Swamps and lagoons; nests in trees and reedy marshes.

VT.— Accidental visitor: South Woodstock, summer, 1878.

CONN.— Accidental visitor: near Milford, May 23, 1875.

103. PLEGADIS AUTUMNALIS (Hasselquist) Stejneger.

Glossy Ibis.

Tringa autumnalis Hasselq., Reise nach Palast., deutsche ausg., 1762, p. 306. [EGYPT.]

HERODIONES. IBIDES.

IBIDIDAE.

Ibis falcinellus Linné. Bonaparte, Amer. ornith., 1833, vol. 4, p. 23, pl. 23, fig. 1.

Marshes and borders of lagoons; nests among low bushes or reeds.

N. H.— Accidental visitor: Alton, Oct. 1858.

Mass.— Accidental visitor: noteworthy flights in May of 1850 and 1878.

Conn.— Accidental visitor: Middletown, May 16, 1850; Stratford (5 specimens) about 1836.

CICONIAE.

CICONIIDAE.

104. Mycteria americana Linné.

Wood Ibis.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 140. "in America calidiore."

Tantalus loculator Linné. Audubon, Birds of Amer., 1843, vol. 6, p. 64, pl. 361.

Swamps and marshes; nests in trees.

Me.— Accidental visitor: Berwick, July 16, 1896.

N. H.— Erroneously recorded for Glossy ibis.

Vt.— Accidental visitor: pair in summer, about 1897, near Burlington.

Mass.— Accidental visitor: (? Georgetown, June 19, 1880); Seekonk, July 17, 1896.

R. I.— Accidental visitor: Barrington, Aug. 8, 1896.

ARDEIDAE.

105. Botaurus lentiginosus (Montagu) Stephens.

American bittern; Bog hen; Indian hen; Meadow hen; Stake driver; Thunder pump.

Ardea lentiginosa Montag., Ornith. dict., suppl., 1813, [p. 186] "Her." "THE WEST OF ENGLAND." Audubon, Birds of Amer., 1843, vol. 6, p. 94, pl. 365. Egg, Capen, 1886, pl. 19, fig. 14.

Fresh and salt marshes and borders of streams; nests on ground.

Me.— Uncommon migrant and summer resident. April 27–Oct. 28. Eggs, late May–June 6.

N. H.— Uncommon migrant and summer resident. Mar.–Nov. (Dec. 11). Eggs, May 27.

Vt.— Uncommon migrant and summer resident. April 30–fall.

Mass.— Common migrant and less common summer resident; casual in winter. Mar. 31–Nov. 26 (Dec. 30; Jan. 5). Eggs, May 5–June 10.

R. I.— Common migrant and uncommon summer resident. April 6–Nov. 10. Eggs, May 23–June 13.

Conn.— Common migrant and uncommon summer resident. April–Nov.

106. Ixobrychus exilis (Gmelin) A. O. U. comm.

Least bittern.

Ardea exilis Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 645. "Jamaica." Audubon, Birds of Amer., 1843, vol. 6, p. 100, pl. 366. Egg, Capen, 1886, pl. 19, fig. 15.

Fresh marshes and swamps; nests among rushes or in bushes.

Me.— Rare summer resident in southern counties. (Mar. 4, 1891, Georgetown) May 12–Aug. (Nov. 13).

N. H.— Rare in summer; may breed in southeastern part: Hampton; Hampton Beach, 1869; Seabrook.

Vt.— Said to have occurred "formerly."

MASS.— Rare local summer resident, mainly near the coast. April 15–Sept. 1. Eggs, June 1–29.

R. I.— Common summer resident; casual in winter. (Mar. 1)–Sept. 14 (Feb. 28, 1881, Providence). Eggs, May 23–June 16.

CONN.— Uncommon local summer resident. Spring–Sept. Eggs, June 10–27.

107. ARDEA HERODIAS Linné.

Great blue heron; Blue crane; Crane; Frog stabber; Poke.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 143. "AMERICA." Audubon, Birds of Amer., 1843, vol. 6, p. 122, pl. 369. Egg, Capen, 1886, pl. 19, fig. 11.

Swamps and borders of ponds; nests in trees.

ME.— Common migrant and local summer resident. Mar. 29–Nov. 12 (Dec. 9). Eggs, late April–May 16.

N. H.— Common migrant and, northward from L. Winnepesaukee, a local summer resident. April 5–Nov. (Dec. 21; Dec. 31, 1901, Randolph).

VT.— Common migrant and, in northern part, a local summer resident. Summer–(Dec. 22, 1884, Milton).

MASS.— Common migrant and rare winter resident; occasional in summer but not now known to breed (formerly at Naushon). Mar. 15–June 4; (summer); July 30–Dec. 20 (winter).

R. I.— Common migrant. Mar.–May 4; July 15–Dec. 11.

CONN.— Common migrant, occasional in summer; rare winter resident. Mar. 15–May (June 2); Aug.–Dec. (winter).

108. HERODIAS EGRETTA (Gmelin) Cabanis.

American egret.

Ardea egretta Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 629. "IN INSULA S. DOMINICI, INSULIS FALKLAND & AMERICA AUSTRALI AD

LOUISIANAM." Audubon, Birds of Amer., 1843, vol. 6, p. 132, pl. 370.

Swamps and lowlands; nests in small trees.

ME.— Occasional summer visitor. April 7–Aug. 22.

N. H.— Rare summer visitor: near Newmarket, 1897.

VT.— Rare summer visitor: New Haven, two in Aug. 1882; Winooski River, summer, 1869.

MASS.— Occasional summer and fall visitor. April–Nov. 22.

R. I.— Occasional summer visitor; may have bred at Wesquage Pond in 1894. June 1–Oct. 12.

CONN.— Occasional summer visitor. July–Oct.

109. EGRETTA CANDIDISSIMA (Gmelin) Gosse.

Snowy heron.

Ardea candidissima Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 633. "IN INUNDATIS PROPE CARTHAGENAM AMERICAE." Audubon, Birds of Amer., 1843, vol. 6, p. 163, pl. 374.

Swamps and lowlands; nests in small trees.

ME.— Erroneously accredited.

VT.— Accidental visitor: St. Albans Bay, two in Oct., 1890.

MASS.— Accidental visitor: near Boston, 1862; Nantucket, March, 1881; Northampton, 1887 (? *nec* Essex Co.).

CONN.— Accidental visitor: Hartford; Stratford ("seen").

110. FLORIDA CAERULEA (Linné) Baird.

Little blue heron.

Ardea caerulea Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 143. "IN AMERICA SEPTENTRIONALI." Audubon, Birds of Amer., 1843, vol. 6, p. 148, pl. 372.

Swamps and lowlands; nests in bushes.

Me.— Accidental visitor. April 1–Sept.
N. H.— Accidental visitor: Amherst, April 28, 1897.
Vt.— Doubtfully recorded.
Mass.— Occasional visitor. April 14–Aug.
R. I.— Rare visitor. June 7–Aug.
Conn.— Rare visitor. May–Sept. 7.

111. Butorides virescens (Linné) Bonaparte.

Little green heron; Fly-up-the-creek; Green heron; Poke.

Ardea virescens Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 144. "America." Audubon, Birds of Amer., 1843, vol. 6, p. 105, pl. 367. Egg, Capen, 1886, pl. 19, fig. 12.

Mainly freshwater streams and ponds; nests in small trees.

Me.— Uncommon migrant and summer resident in southern counties. May 2–Sept.19.

N. H.— Uncommon summer resident in southern half, and in Connecticut valley. Late April–Oct. Eggs, June 16.

Vt.— Uncommon summer resident in southern part. May–Oct.

Mass.— Common summer resident. (April 9 and 16) April 26–Oct. 16. Eggs, May 10–June 2.

R. I.— Common summer resident. April 20–Sept. 24. Eggs, May 21, 23.

Conn.— Common summer resident. Late April–Oct. Eggs, May 30–June 17.

112. Nycticorax nycticorax naevius (Boddaert) Zeledon.

Black-crowned night heron; Buttermunk; Qua-bird; Quok; Shitepoke; Squawk.

Ardea naevia Bodd., Tabl. d. planch. enlum. d'hist. nat., 1783, p. 56. Based on Buffon: "Cayenne."

ARDEIDAE.

Ardea nycticorax Linné. Audubon, Birds of Amer., 1843, vol. 6, p. 82, pl. 363. Egg, Capen, 1886, pl. 19, fig. 13.

Swamps and marshes; nests in colonies in trees, rarely on the ground.

Me.— Common summer resident, chiefly near the coast. Spring–Sept. 16. Eggs, May 26.

N. H.— Uncommon summer resident north to southern White Mt. valleys. April–Oct.

Vt.— Uncommon summer resident near lakes and streams.

Mass.— Common migrant and summer resident; rare winter resident near coast. Mar. 27–Nov. 1 (winter). Eggs, May 2–June 13.

R. I.— Common summer and rare winter resident. April 1–Sept. 23 (winter). Eggs, May 7–June 7.

Conn.— Common migrant and less common summer resident. April–Oct. Eggs, April 17.

113. Nyctanassa violacea (Linné) Sharpe.

Yellow-crowned night heron.

Ardea violacea Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 143. "in America septentrionali." Audubon, Birds of Amer., 1843, vol. 6, p. 89, pl. 364.

Swamps and lowlands; nests in low trees.

Me.— Accidental visitor: Deering, April 13, 1901; Portland, April 11, 1906.

Mass.— Accidental visitor: six instances. July–Oct.

R. I.— Accidental visitor: Newport, Aug. 1892; Tiverton, April 23, 1886.

PALUDICOLAE. GRUES.

GRUIDAE.

114. GRUS AMERICANA (Linné) Vieillot.

Whooping crane.

Audubon, Birds of Amer., 1842, vol. 5, p. 188, pl. 313.

Ardea americana Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 142. "IN AMERICA SEPTENTRIONALI."

Freshwater marshes and open lowlands; nests in marshes.

VT., MASS.— Supposed to have been a migrant in colonial times.

115. GRUS CANADENSIS (Linné) Temminck.

Little brown crane.

Ridgway, Manual of No. Amer. birds, 1887, p. 135.

Ardea canadensis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 141. "IN AMERICA SEPTENTRIONALI."

Grus fraterculus Cassin. Baird, Cassin, and Lawrence, Expl. and surveys for railroad to Pacific, 1858, birds, pl. 37.

Grassy flats and marshes; nests on the ground.

R. I.— Accidental visitor: Natick Hill, Oct. 9, 1889.

116. GRUS MEXICANA (Müller) Vieillot.

Sandhill crane.

Coues, Key to No. Amer. birds, ed. 5, 1903, vol. 2, p. 848.

Ardea (grus) mexicana Müll., Linné's Vollstand. natursyst., suppl., 1776, p. 110. "MEXICO."

Grus americana Forst. Audubon, Birds of Amer., 1842, vol. 5, pl. 314.

Freshwater marshes and open lowlands; nests in marshes.

N. H.— Believed to have occurred formerly; now accidental visitor: Wakefield, 1896 or 1897.

VT.— Believed to have occurred formerly as a migrant; now accidental visitor: Lunenburg.

MASS., CONN.— Believed to have occurred formerly as a migrant.

RALLIDAE.

117. RALLUS ELEGANS Audubon.

King rail; Fresh-marsh hen; Royal rail.

Audubon, Ornith. biogr., 1835, vol. 3, p. 27, pl. 203. "SOUTHERN STATES." Cones, Key No. Amer. birds, ed. 5, 1903, vol. 2, p. 854.

Freshwater marshes; nests on the ground.

ME.— Occasional fall visitor. Sept. 19–Dec. 17.

MASS.— Occasional visitor at all seasons; may breed.

R. I.— Rare visitor (four records). Jan., Feb., Mar., fall.

CONN.— Rare summer resident (Saybrook, Stratford) and occasional at other seasons.

118. RALLUS CREPITANS Gmelin.

Clapper rail; Salt-marsh hen.

Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 713. "IN NOVEBORACO." Audubon, Birds of Amer., 1842, vol. 5, p. 165, pl. 310. Egg, Capen, 1886, pl. 20, figs. 1, 2.

Saltwater marshes; nests on the ground.

ME.— Accidental visitor in southern counties: Popham Beach, Oct. 12 and (25), 1900; Sabattus Pond, 1874; ? York and Cumberland Cos.

N. H.— Accidental visitor: Portsmouth.

VT.— Accidental visitor: Burlington (Conger).

MASS.— Occasional visitor, may breed.

R. I.— Doubtfully recorded.

CONN.— Rare visitor and summer resident (New Haven Stratford).

119. RALLUS VIRGINIANUS Linné.

Virginia rail; Water-hen.

Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 263. "IN AMERICA

SEPTENTRIONALI." Audubon, Birds of Amer., 1842, vol. 5, p. 174, pl. 311. Egg, Capen, 1886, pl. 20, figs. 3, 4.

Fresh and brackish marshes; nests on the ground.

ME.— Rare summer resident. Late April–Oct.

N. H.— Rare summer resident south of White Mts. April–Oct. 1. Eggs, May 21–28.

VT.— Rare summer resident locally: Burlington; Rutland Co.

MASS.— Summer resident, more common near coast; rare winter resident (Cape Cod). April 11–Nov. 27 (Jan. 1, 1891, Worcester) (winter). Eggs, May 12–June 1.

R. I.— Common migrant and summer resident. April–Nov. 2. Eggs, May 29.

CONN.— Common migrant and summer resident. Eggs, June 6.

120. PORZANA CAROLINA (Linné) Baird.

Sora; Carolina rail; Meadow-hen; Rail-bird.

Rallus carolinus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 153. "IN AMERICA SEPTENTRIONALI."

Ortygometra carolinus (Linné). Audubon, Birds of Amer., 1842, vol. 5, p. 145, pl. 306. Egg, Capen, 1886, pl. 20, fig. 5.

Fresh and brackish marshes; nests on the ground.

ME.— Uncommon summer resident. Late April–Oct. 26. Eggs, –July 27.

N. H.— Uncommon summer resident northward to White Mt. valleys. May–Oct.

VT.— Uncommon summer resident.

MASS.— Common migrant and local summer resident. (Mar. 20) April 14–Nov. 1 (Dec. 20). Eggs, June 9–11.

R. I.— Common migrant and summer resident. (Mar. 2) April–Nov. 10. Eggs, May 24.

CONN.— Common migrant and summer resident. April–Oct. (Dec. 29, 1881, Hartford).

RALLIDAE.

121. COTURNICOPS NOVEBORACENSIS (Gmelin) Bonaparte.

Yellow rail.

Fulica noveboracensis Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 701. "IN NOVEBORACO."

Rallus noveboracensis (Lath.). Bonaparte, Amer. ornith., 1833, vol. 4, p. 136, pl. 27, fig. 2. Egg, Capen, 1886, pl. 20, fig. 6.

Freshwater marshes; nests on the ground.

ME.— Rare migrant and said to have bred near Calais. May 31; Oct. 4–Nov. 15.

N. H.— Rare migrant: Hampton.

VT.— Rare migrant: Newport; northern Vt.; Rutland Co.

MASS.— Rare migrant and possible summer resident. April–May 26; Sept. 2–Oct. 22.

R. I.— Rare migrant (five records). Sept. 28.

CONN.— Rare spring and uncommon fall migrant; said to have bred at Middletown, 1874, 1875. (Mar. 24, Gaylordsville); Sept.–Oct. 14 (Nov. 10).

122. CRECISCUS JAMAICENSIS (Gmelin) Cabanis.

Black rail; Little black rail.

Rallus jamaicensis Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 718. "JAMAICA."

Porzana jamaicensis (Gmel.). Chapman, Handb. birds east. No. Amer., 1895, p. 144; Allen, Auk, 1900, vol. 17, pl. 1.

Freshwater marshes; nests on the ground.

ME.— Doubtfully recorded from Scarborough, Oct. 4, 1881.

MASS.— Very rare visitor and summer resident (at Chatham, Hazardville). May 16–Sept. 20. Eggs, May.

CONN.— Very rare summer resident (at Lyme, Saybrook); also taken at Hazenville. Eggs, June 6–July 10.

RALLIDAE.

123. Crex crex (Linné) Sharpe.

Corn crake; Daker-hen; European land rail.

Coues, Key to No. Amer. birds, ed. 5, 1903, vol. 2, p. 859.

Rallus crex Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 153. "in Europae agris, carectis."

Crex pratensis Bechst. Dresser, Birds of Europe, 1871–81, vol. 7, pl. [499]. Egg, Seebohm, 1896, p. 83, pl. 22, fig. 9.

Grassy meadows and grain fields; nests on the ground.

Me.— Accidental from Europe: near Falmouth, Oct. 14, 1889.

R. I.— Accidental visitor: Cranston, 1857.

Conn.— Accidental visitor: Saybrook, Oct. 20, 1887.

124. Ionornis martinica (Linné) Reichenbach.

Purple gallinule.

Fulica martinica Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 259. "in Martinicae inundatis."

Gallinula martinica (Linné). Audubon, Birds of Amer., 1842, vol. 5, p. 128, pl. 303.

Freshwater marshes; nests among rushes.

Me.— Accidental visitor. April 11–Dec. 17.

N. H.— Accidental visitor: Dover; Rye.

Vt.— Doubtfully recorded.

Mass.— Occasional visitor, mainly in April and Oct.–Nov., once in June.

R. I.— Occasional visitor. Jan.; May; June 8, 1902, Seaconnet Point; Aug.; fall.

Conn.— Rare visitor: Middletown, 1855.

125. Gallinula galeata (Lichtenstein) Bonaparte.

Florida gallinule; Pond hen; Red-billed mud-hen.

Crex galeata Licht., Verz. d. doubletten zool. mus. Berlin, 1823, p. 80. "San Paulo," Brazil.

RALLIDAE.

Gallinula chloropus Linné. Audubon, Birds of Amer., 1842, vol. 5, p. 132, pl. 304. Egg, Capen, 1886, pl. 20, figs. 7, 8.

Freshwater marshes; nests among rushes near the ground.

ME.— Rare migrant and (?) summer resident. May 5; Sept. 20–Oct. 16.

N. H.— Accidental visitor: Rollinsford.

VT.— Rare local summer resident at Lake Bomoseen, Lake Champlain, St. Albans. April 28–fall. Eggs, May 28–June 5.

MASS.— Rare local summer resident, mainly near coast. April 29–Oct. 25 (Nov. 9). Eggs, June 5–July 17.

R. I.— Uncommon local summer resident. May–Nov. 29.

CONN.— Uncommon local summer resident. Eggs, June 25 (Stratford).

126. FULICA AMERICANA Gmelin.

American coot; Blue Peter; Coot; Marsh hen; Mud-hen; Pond crow; Pond hen.

Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 704. "IN AMERICA SEPTENTRIONALI." Audubon, Birds of Amer., 1842, vol. 5, p. 138, pl. 305. Egg, Capen, 1886, pl. 20, fig. 9.

Freshwater ponds and marshes mainly; nests among reeds.

ME.— Uncommon migrant, mainly in fall. (Mar. 23) April 14–May 13; Oct. 26–Nov.

N. H.— Uncommon migrant, mainly in southern part. Spring; late Aug.–Oct. 15.

VT.— Uncommon migrant and rare summer resident (Lake Bomoseen).

MASS.— Rare spring and uncommon fall migrant; rare winter resident near coast; may breed rarely (pair, Cheshire reservoir, June 21, 1892). Mar. 29–April 25; (June 21); (Aug. 16) Sept. 3–Nov. (winter).

PALUDICOLAE. RALLI.

RALLIDAE.

R. I.— Common migrant, mainly in fall. April–May 28; Sept. 26–Dec. 20.

CONN.— Common migrant, mainly in fall. Spring; Sept. 29–Nov. 14.

LIMICOLAE.

PHALAROPODIDAE.

127. PHALAROPUS FULICARIUS (Linné) Bonaparte.

Red phalarope; Bank-bird; Brown bank-bird; Gray phalarope; Gulf-bird; Sea goose; Whale-bird.

Audubon, Birds of Amer., 1842, vol. 5, p. 291, pl. 339. Egg, Capen, 1886, pl. 18, fig. 11; pl. 19, fig. 1.

Tringa fulicaria Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 148. "AMERICA."

Chiefly maritime; nests on the ground in marshes.

ME.— Uncommon migrant, mainly offshore, and rare summer resident (near Calais). May 8–17; (summer); July 25–Oct. 17.

N. H.— Migrant, mainly offshore; sometimes common. May; Oct.

VT.— Rare migrant at Lake Champlain.

MASS.— Offshore migrant, irregularly common. May 1–26; Aug. 31–Nov. 24.

R. I., CONN.— Offshore migrant, sometimes common. Late May; Sept. 26–Dec. 20.

128. LOBIPES LOBATUS (Linné) Baird, Brewer, & Ridgway.

Northern phalarope; Bank-bird; Jersey goose; Mackerel goose; Red-necked phalarope; Sea goose; Sea snipe; Whale-bird; White bank-bird.

Tringa lobata Linné, Syst. nat., ed. 10, 1758, vol. 1, pp. 148, 824. "IN AMERICA SEPTENTRIONALI, LAPPONIA."

Lobipes hyperboreus Lath. Audubon, Birds of Amer., 1842, vol. 5, p. 295, pl. 340. Egg, Seebohm, 1896, p. 131, pl. 38, fig. 1.

Chiefly maritime; nests on the ground in marshes.

LIMICOLAE.

PHALAROPODIDAE.

ME.— Common migrant, mainly offshore. (Feb.) May 3–June 15; July 24–Nov.

N. H.— Common migrant, mainly offshore. May; Aug. 9–Sept. 22.

MASS.— Common migrant, mainly offshore. May 1–26; Aug. 10–Oct. 13.

R. I.— Common migrant, mainly offshore. May; Aug. 16–Sept. 15.

CONN.— Offshore migrant. Spring?; Aug. 4–Sept. 27 (Dec. 25).

129. STEGANOPUS TRICOLOR Vieillot.

Wilson's phalarope.

Vieill., Nouv. dict. d'hist. nat., 1819, vol. 32, p. 136. "PARAGUAY."

Phalaropus wilsonii Sabine. Swainson and Richardson, Fauna Boreali-Amer., 1831, vol. 2, p. 405, pl. 69.

Chiefly freshwater marshes; nests on the ground.

ME.— Accidental visitor: Sabattus Pond, Sept. or Oct. 1906; Scarborough, three, June 9, 1891.

N. H.— Accidental visitor: Rye Beach, Aug. 15, 1872.

MASS.— Accidental visitor (five records). May 20; Aug. 18–31.

R. I.— Accidental (fall) visitor (five records). Aug. 2–Sept. 13.

CONN.— Accidental visitor: Bridgeport.

RECURVIROSTRIDAE.

130. RECURVIROSTRA AMERICANA Gmelin.

American avocet.

Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 693. "IN AMERICA SEPTENTRIONALI & NOVA HOLLANDIA." Audubon, Birds of Amer., 1843, vol. 6, p. 24, pl. 353.

LIMICOLAE

RECURVIROSTRIDAE.

Open lowlands and marshes; nests on the ground.

ME.— Accidental visitor: Cape Elizabeth, Nov. 5, 1878.

VT.— Accidental visitor: St. Albans, fall, 1875, and 1890; (*nec* Rutland, 1882).

MASS.— Accidental visitor: Ipswich, three, Sept. 13, 1896; Lynn; Natick, Oct. 19, 1880.

CONN.— Accidental visitor: between Saybrook and East Lyme, 1871.

131. HIMANTOPUS MEXICANUS (Müller) Ord.

Black-necked stilt.

Charadrius mexicanus Müll., Linné's Vollstand. natursyst., suppl., 1776, p. 117. "MEXICO."

Himantopus nigricollis Vieill. Audubon, Birds of Amer., 1843, vol. 6, p. 31, pl. 354.

Salt marshes and lagoons; nests on the ground.

ME.— Accidental visitor: Rockland, May, 1889; (*nec* Boardman, New Brunswick).

N. H.— Accidental visitor: Rye Beach.

MASS.— Accidental visitor: Lynn; Mass. coast.

SCOLOPACIDAE.

132. PHILOHELA MINOR (Gmelin) Gray.

American woodcock; Bog-sucker; Woodcock.

Scolopax minor Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 661. "IN AMERICAE, A SEPTEMBRI INDE IN CAROLINAE, AB APRILIS FINE IN NOVEBORACI SILVIS HUMIDIS."

Microptera americana Audubon, Birds of Amer., 1843, vol. 6, p. 15, pl. 352. Egg, Capen, 1886, pl. 19, fig. 2.

Freshwater swamps, damp woods and thickets; nests on the ground.

LIMICOLAE.

SCOLOPACIDAE.

ME.— Common migrant and summer resident; possibly winters. (Mar. 10) Mar. 23–Nov. 30 (Dec. 18) (Feb., two instances). Eggs, April 26–May 19.

N. H.— Uncommon migrant and summer resident. Late Mar.–Oct. Eggs, May 10.

VT.— Uncommon migrant and summer resident. Mar. 27–Oct. Eggs, May 4.

MASS.— Common migrant and uncommon summer resident; rare in winter. Mar. 4–Nov. 25 (winter). Eggs, April 11–May 6.

R. I.— Common migrant and now a rare summer resident. Mar.–Dec. 4. Eggs, April 5–May 17.

CONN.— Common migrant, uncommon summer and winter resident. Feb. 26–Nov.; winter. Eggs, (Mar. 30) April 3–June 3; July 20 (2d brood).

133. GALLINAGO DELICATA (Ord) A. O. U. check-list.

Wilson's snipe; Alewife-bird; Common snipe; English snipe; Jack snipe.

Scolopax delicata Ord, Wilson's Ornith., 1825, vol. 9, p. ccxviii. "KENTUCKY, ... ILLINOIS, ... PENNSYLVANIA."

Scolopax wilsonii Temm. Audubon, Birds of Amer., 1842, vol. 5, p. 339, pl. 350. Egg, Capen, 1886, pl. 19, fig. 3.

Fresh and brackish meadows and marshes; nests on the ground.

ME.— Common migrant and rare summer resident. April 19–May 15; summer; Sept.–Nov. 15.

N. H.— Common migrant, mainly coastwise; very rare winter resident (Nashua). Mar.–May 7; July 22–mid-Dec. (winter).

VT.— Uncommon migrant and rare winter resident (Rutland Co.); ? "summer resident."

MASS.— Common migrant, rare winter resident; rare and irregular summer resident (at Carlisle, Concord). (Mar. 8) Mar. 20–May 18; (summer); Aug. 1–Nov. 30 (winter).

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R. I.— Common migrant and rare winter resident. Mar. 9–May 6; (July 29) Aug. 12–Nov. 14 (Dec., Jan.).

CONN.— Common migrant, rare summer and winter resident. Mar. 18–Dec.; winter. Eggs, May 13 (Portland).

134. MACRORHAMPHUS GRISEUS (Gmelin) Leach.

Dowitcher; Brownback; Deutscher; Fool plover; German snipe; Grayback; Gray snipe; Red-breasted snipe; Robin snipe.

Scolopax grisea Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 658. "IN NOVEBORACI MARITIMIS."

Scolopax noveboracensis Gmel. Audubon, Birds of Amer., 1843, vol. 6, p. 10, pl. 351. Egg, Seebohm, 1896, p. 143, pl. 41, fig. 8.

Chiefly maritime marshes and mudflats; nests on the ground.

ME.— Common migrant coastwise. May 21–29; late July–Sept. (Oct. 29).

N. H.— Migrant, common in fall. May 20–25; July 20–Sept.

MASS.— Rare spring and uncommon fall migrant, mainly coastwise. May 1–June 7 (June 18); July 5–Sept. 30.

R. I.— Uncommon migrant coastwise. May; July 5–Oct. 20.

CONN.— Uncommon migrant, mainly in fall.

135. MACRORHAMPHUS SCOLOPACEUS (Say) Lawrence.

Long-billed dowitcher.

Elliot, New and unfigured birds No. Amer., 1869, vol. 2, pl. 40.

Limosa scolopacea Say, Long's exped. to Rocky Mts., 1823, vol. 1, p. 170. "NEAR THE BOWYER CREEK," IOWA.

Chiefly maritime marshes and mudflats; nests on the ground.

MASS.— Rare fall migrant. Aug. 29–Nov. 3.

R. I.— Rare fall migrant: Middletown, Oct. 8, 1890.

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136. MICROPALAMA HIMANTOPUS (Bonaparte) Baird.

Stilt sandpiper; Bastard yellow-leg; Long-legged sandpiper; Mongrel.

Tringa himantopus Bonap., Ann. lyceum nat. hist. New York, 1826, vol. 2, p. 157. "LONG BRANCH, NEW JERSEY." Bonap., Amer. ornith., 1833, vol. 1, p. 89, pl. 25, fig. 3.

Marshes and mudflats; nests on the ground.

ME.— Rare fall migrant coastwise. July 19–Sept. 26 (Oct. 2, 1908, Pine Point).

N. H.— Rare fall migrant coastwise. July 31–Aug. 28.

MASS.— Uncommon fall migrant coastwise. July 19–Sept. 29.

R. I.— Very rare spring and uncommon fall migrant. May 9, 1895, Sakonnet Point; July 6–Sept. 19.

CONN.— Rare migrant: New Haven, Sept. 16, 1886.

137. TRINGA CANUTUS Linné.

Knot; Ash-colored sandpiper; Blue plover; Grayback; Gray snipe; Red-breasted plover or sandpiper; Robin snipe; Silver plover.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 149. "IN EUROPA." Egg, Seebohm, 1896, p. 144, pl. 43, fig. 10.

Tringa islandica Linné. Audubon, Birds of Amer., 1842, vol. 5, p. 254, pl. 328.

Sandy beaches; nests on the ground.

ME., N. H.— Uncommon migrant coastwise. May 24–June 11; Aug.–Sept.

MASS.— Common migrant coastwise, casual inland (Springfield); rare winter resident. May 11–June 5 (June 25); July 13–Nov. 8 (winter).

R. I.— Common migrant coastwise. May; July 11–Sept. 14.

CONN.— Common migrant coastwise.

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138. ARQUATELLA MARITIMA (Brünnich) Coues.

Purple sandpiper; Rock snipe; Winter peep; Winter snipe.

Tringa maritima Brünn., Ornith. borealis, 1764, p. 54. "CHRISTIANSÖE" I., DENMARK, AND "NORVEGIA." Audubon, Birds of Amer., 1842, vol. 5, p. 261, pl. 330. Egg, Seebohm, 1896, p. 146, pl. 43, figs. 2, 5.

Rocky islands and coasts of the sea; nests on the ground.

ME.— Common migrant and winter resident coastwise; accidental in summer. Sept. 15–April (Aug. 6, 1907, Metinic Green Id.; Aug. 11, 1902, Metinic reef).

N. H.— Rare winter visitor coastwise.

VT.— Doubtfully recorded.

MASS.— Common fall and winter visitor coastwise. (July 30) Sept. 6–April 19 (May 11).

R. I.— Common winter resident on rocky coasts. Sept. 13–April 15.

CONN.— Common winter resident on rocky islands coastwise.

139. PISOBIA MACULATA (Vieillot) A. O. U. comm.

Pectoral sandpiper; Brown-back; Creaker or Krieker; Grass-bird; Grass snipe; Jack snipe; Pert; Squatter.

Tringa maculata Vieill., Nouv. dict. d'hist. nat., 1819, vol. 34, p. 465. "AUX ÎLES ANTILLES ET DANS LES PARTIES MÉRIDIONALES DES ETATS-UNIS."

Tringa pectoralis Bonap. Audubon, Birds of Amer., 1842, vol. 5, p. 259, pl. 329. Egg, Seebohm, 1896, p. 148, pl. 43, fig. 12.

Marshes and mudflats; nests on the ground.

ME.— Rare spring and common fall migrant, mainly coastwise. (Spring); Aug. 13–Oct. 5.

N. H.— Migrant, common in fall, mainly coastwise. July–Oct. 10.

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VT.— Uncommon fall migrant.

MASS.— Rare spring and common fall migrant. (April 4) April 9–May 16 (May 23); July 15–Nov. 11.

R. I.— Rare spring and common fall migrant. April 25; July 16–Oct. 20.

CONN.— Rare spring and common fall migrant.

140. PISOBIA FUSCICOLLIS (Vieillot) A. O. U. comm.

White-rumped sandpiper; Bonaparte's sandpiper; Bull-peep; Schinz's sandpiper.

Tringa fuscicollis Vieill., Nouv. dict. d'hist. nat., 1819, vol. 34, p. 461. "PARAGUAY." Egg, Seebohm, 1896, p. 145, pl. 43, fig. 8.

Actodromas fuscicollis (Vieill.). Baird, Brewer, and Ridgway, Water birds of No. Amer., 1884, vol. 1, p. 227, fig.

Tringa schinzii Brehm. Audubon, Ornith. biogr., 1835, vol. 3, pl. 278.

Beaches and marshy shores; nests on the ground.

ME.— Uncommon migrant, mainly coastwise. May 29, 30; late July–Oct. 23 (Nov. 18).

N. H.— Uncommon migrant, mainly coastwise. ? Spring; July–Oct. 14.

VT.— Uncommon fall migrant. Aug.–Sept.

MASS.— Rare spring and common fall migrant mainly coastwise. May 15–June 5; July 10–Nov. 10.

R. I.— Uncommon fall migrant. July 11–Oct.

CONN.— Uncommon migrant. Aug. 31.

141. PISOBIA BAIRDII (Coues) A. O. U. comm.

Baird's sandpiper.

Actodromas bairdii Coues, Proc. acad. nat. sci. Phila., 1861, p. 194. "NORTH AMERICA." Baird, Brewer, and Ridgway, Water birds No. Amer., 1884, vol. 1, p. 230, colored fig. of head.

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Beaches and marshes; nests on the ground.

ME.— Rare fall migrant. Aug. 7–Sept. 20 (Nov. 1, 1881, Bangor).

N. H.— Rare fall migrant. Aug. 26–Sept 5.

MASS.— Rare fall migrant. July 27–Oct. 1.

R. I.— Rare fall migrant (seven records). Aug. 26–Sept. 17.

CONN.— Rare fall migrant: New Haven, Oct. 19, 1889, Oct. 28, 1887; Stratford, Nov. 3, 1888.

142. PISOBIA MINUTILLA (Vieillot) A. O. U. comm.

Least sandpiper; Bumble bee; Meadow ox-eye; Mud peep; Peep; Wilson's sandpiper.

Tringa minutilla Vieill., Nouv. dict. d'hist. nat., 1819, vol. 34, p. 466. "EN AMÉRIQUE JUSQU'AU DELÀ DU CANADA." Egg, Seebohm, 1896, p. 149, pl. 44, fig. 8.

Tringa pusilla Wils. Audubon, Birds of Amer., 1842, vol. 5, p. 280, pl. 337.

Marshes and mudflats; nests on the ground.

ME.— Common migrant. May 13–24 (June); July 5–Oct. 1 (Oct. 15).

N. H.— Common migrant. Late May–June 3; July 10–Sept.

VT.— Uncommon migrant.

MASS.— Common migrant. (April 18) May 5–June 7; (summer) July 6–Sept. 21 (Oct. 13).

R. I.— Common migrant. (April 25)–May 26; July 15–Oct.

CONN.— Common migrant. May–June; Aug.–Sept.

143. PELIDNA ALPINA (Linné) C. L. Brehm.

European dunlin.

Sharpe, Cat. birds British mus., 1896, vol. 24, p. 602. Dresser, Birds of Europe, 1871–81, vol. 8, p. [21], pl. [548].

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Tringa alpina Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 149. "IN LAPPONIA." Egg, Seebohm, 1896, p. 144, pl. 43, figs. 7, 9.

Beaches and marshes; nests on the ground.

MASS.— Accidental from Old World: Chatham, Aug. 11, 1900.

144. PELIDNA ALPINA SAKHALINA (Vieillot) Buturlin.

American dunlin; Black-bellied sandpiper; Black-breast; Brant-bird; Crooked-billed snipe; Fall snipe; Lead-back; Ox-bird; Ox-eye; Red-back; Red-backed sandpiper.

Scolopax sakhalina Vieill., Nouv. dict. d'hist. nat., 1816, vol. 3, p. 359. "EN RUSSIE."

Tringa alpina Linné. Audubon, Birds of Amer., 1842, vol. 5, p. 266, pl. 332.

Beaches and marshes; nests on the ground.

ME.— Rare spring and commoner fall migrant coastwise Late May; Oct.–Nov. 17.

N. H.— Uncommon coastwise migrant.

MASS.— Rare spring and common fall migrant coastwise. (? Mar. 15) late April–May 20 (June 18); Sept. 1–Dec. 13 (Dec. 24).

R. I.— Rare spring and common fall migrant coastwise. May; Aug. 29–Oct. 29.

CONN.— Rare spring and common fall migrant; "may winter."

145. EROLIA FERRUGINEA (Brünnich) A. O. U. comm.

Curlew sandpiper.

Tringa ferruginea Brünn., Ornith. bor., 1764, p. 53. "ISLANDIA & CHRISTIANSOE." ISLAND.

Tringa subarquata Temm. Audubon, Birds of Amer., 1842, vol. 5, p. 269, pl. 333.

Seacoasts and tundras; nests on the ground.

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ME.— Accidental visitor: Pine Point, Cumberland Co., Sept. 15, 1881.

MASS.— Accidental visitor: five records. May; Aug.

R. I.— Doubtfully recorded.

CONN.— Accidental visitor: four records. (June 1874, New Haven); Aug. 30–Oct. 3.

146. EREUNETES PUSILLUS (Linné) Cassin.

Semipalmated sandpiper; Black-legged peep; Peep; Sand ox-eye; Sand peep.

Tringa pusilla Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 252. "IN DOMINGO."

Tringa semipalmata Wils. Audubon, Birds of Amer., 1842, vol. 5, p. 277, pl. 336.

Sand beaches and marshes; nests on the ground.

ME.— Common migrant. May–June 5; July 29–Sept. 28 (Oct.).

N. H.— Common migrant. May; July–early Sept.

VT.— Uncommon migrant to larger lakes.

MASS.— Common migrant; non-breeding birds occur in summer coastwise. (May 1) May 13–June 14; (summer); July 3–Oct. 8 (Oct. 30).

R. I.— Common migrant. May 13–June 2; July 14–Oct. 10.

CONN.— Common migrant. May–early June; July–Oct.

147. EREUNETES MAURI Cabanis.

Western semipalmated sandpiper

Cab., Journ. f. ornith., 1856, p. 419. "CUBA."

Ereunetes pusillus occidentalis (Lawrence). Baird, Brewer, and Ridgway, Water birds of No. Amer., 1884, vol. 1, p. 206, fig. of head.

Sand beaches and marshes; nests on the ground.

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N. H.— Rare fall migrant: Hampton, Oct. 10, 1899.

MASS.— Uncommon fall migrant. July 19–Sept. 20.

R. I.— Rare fall migrant: Middletown, Aug. 25, and Aug. 29, 1899.

CONN.— Rare fall migrant: Lyme, Sept. 4, 1889 (six).

148. CALIDRIS LEUCOPHAEA (Pallas) A. O. U. comm.

Sanderling; Beach-bird; Beach plover; Bull-peep; Grayback; Ruddy plover; Surf snipe; Whitey; Whiting.

Tringa leucophaea Pallas, in Vroeg's Catalogue, 1764, p. 32. NORTH SEA COAST.

Tringa arenaria Bonap. Audubon, Birds of Amer., 1842, vol. 5, p. 287, pl. 338. Egg, Seebohm, 1896, p. 150, pl. 41, fig. 4.

Sand beaches; nests on the ground.

ME., N. H.— Uncommon spring and common fall migrant coastwise. May 5–30; late July–Oct. 13 (Nov. 5, Portland).

VT.— Rare migrant. Sept.

MASS.— Common coastwise migrant and, south of Cape Cod, a winter resident. (Late April) May 19–June 4 (June 24); July 6–Dec. 6 (Dec. 13); winter.

R. I.— Common migrant, casual inland; probably a rare winter resident. (Mar. 20) May–June; Aug. 1–Nov. 5.

CONN.— Common migrant coastwise. May; July–Oct.

149. LIMOSA FEDOA (Linné) Sabine.

Marbled godwit; Brown marlin; Red curlew.

Audubon, Birds of Amer., 1842, vol. 5, p. 331, pl. 348.

Scolopax fedoa Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 146. "IN AMERICA SEPTENTRIONALI."

Beaches and marshes; nests on the ground.

ME.— Rare migrant. May, 1884 (Scarborough); Aug. 8–Sept. 13.

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N. H.— Rare migrant: Rye Beach, Aug. 27, 1868.
Vt.— Formerly a migrant.
Mass.— Rare migrant. May 20–23; July 17–Sept. 5.
R. I.— Rare migrant. Aug. 6–Oct. 2.
Conn.— Rare migrant. Aug.

150. Limosa haemastica (Linné) Coues.

Hudsonian godwit; Black-tail; Goose-bird; Ring-tailed marlin; Spot-rump.

Scolopax haemastica Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 147. "in America septentrionali."

Limosa hudsonica Lath. Audubon, Birds of Amer., 1842, vol. 5, p. 335, pl. 349.

Beaches and marshes; nests on the ground.

Me.— Rare fall migrant coastwise.
N. H.— Rare fall migrant coastwise. Aug. 2–Oct.
Vt.— Rare migrant: Burlington.
Mass.— Rare (? spring and) fall migrant. (? April 29–May 25); July 15–Nov. 7.
R. I.— Rare (? spring and) fall migrant coastwise. July 22–Oct. 13.
Conn.— Rare migrant.

151. Totanus melanoleucus (Gmelin) Vieillot.

Greater yellow-legs; Cucu; Greater tattler or telltale; Long-legged tattler; Stone snipe; Winter yellow-legs.

Scolopax melanoleuca Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 659. "auctumno in arenis littoris Labrador."

Totanus voëiferus Wils. Audubon, Birds of Amer., 1842, vol. 5, p. 316, pl. 345.

Salt and fresh marshes; nests on the ground.

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ME.— Common migrant and possibly a rare summer resident in extreme north (Woolastook valley). Late April–May 19 (July); late July–Oct. 22.

N. H.— Common migrant, mainly coastwise. May; July 17–Oct. 27.

VT.— Uncommon migrant. May; fall.

MASS.— Common migrant mainly coastwise; a few non-breeding birds rarely summer. (Mar. 27) April 4–June 16 (June 28); July 6–Nov. 12.

R. I.— Common migrant. (? Mar. 10) April 10–May 26; July 20–Nov. 4.

CONN.— Common migrant. May 14–June 1 (June 13, 1898 New London); Aug.–Nov. 15.

152. TOTANUS FLAVIPES (Gmelin) Vieillot.

Yellow-legs; Lesser yellow-legs; Summer yellow-legs; Wandering tattler.

Audubon, Birds of Amer., 1842, vol. 5, p. 313, pl. 344. Egg, Seebohm, 1896, p. 139, pl. 44, fig. 11.

Scolopax flavipes Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 659. "IN NOVEBORACO."

Salt and fresh marshes; nests on the ground.

ME.— Rare spring and common fall migrant. May 16; late July–(Oct. 17).

N. H.— Rare spring and common fall migrant. May; Aug.–Sept. 4.

VT.— Uncommon migrant.

MASS.— Rare spring and common early fall migrant. April 29–June 2 (June 15); July 10–Sept. 29 (Oct. 11 and 30).

R. I.— Rare spring and common fall migrant. April 28; July 3–Oct. 1.

CONN.— Rare spring and common fall migrant. May 7; Aug. 17–Oct.

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153. HELODROMAS SOLITARIUS (Wilson) Sharpe.

Solitary sandpiper or tattler.

Tringa solitaria Wils., Amer. ornith., 1813, vol. 7, p. 53, pl. 58, fig. 3. "KENTUCKY TO NEW YORK."

Totanus solitarius (Wils.). Audubon, Birds of Amer., 1842, vol. 5, p. 309, pl. 343. Egg, Capen, 1886, pl. 19, fig. 6.

Borders of woodland streams and ponds, rarely near salt water; nests on the ground or in other birds' deserted nests.

ME.— Common migrant and in northern part a rare summer resident (Woolastook valley). May 7–30; summer–Oct. 2 (Oct. 21).

N. H.— Common migrant, and possibly a rare summer resident. May 9–June; July 17–(Nov. 1).

VT.— Common migrant; reported breeding at Lake Bomoseen, St. Albans Bay, Wells River. May–Sept. 3. Eggs, middle of May.

MASS.— Common migrant, mainly inland. May 2–26 (June); (July 8) July 20–Oct. 14 (Nov. 28).

R. I.— Uncommon migrant. May 3–20; July 18–Sept. 25.

CONN.— Common migrant. May 2–(June 10); Aug.–Sept.

154. CATOPTROPHORUS SEMIPALMATUS (Gmelin) Bonaparte.

Willet; Goose-bird; Humility.

Scolopax semipalmata Gmelin, Syst. nat., 1788, vol. 1, pt. 2, p. 659. "IN NOVEBORACO."

Totanus semipalmatus Lath. Audubon, Birds of Amer., 1842, vol. 5, p. 324, pl. 347. Egg, Capen, 1886, pl. 19, figs. 4, 5.

Salt and fresh marshes, and beaches; nests on the ground.

ME., N. H.— Rare migrant coastwise. Oct. 25.

VT.— Rare migrant: Middlebury.

MASS.— Rare migrant coastwise; formerly rare summer resident

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(Muskeget, about 1869, New Bedford). May 2–31 (June 17); July 8–Sept. 11.

R. I.— Rare migrant coastwise, mainly in fall. May; July 2–Sept. 18.

CONN.— Formerly a rare summer resident (Madison, Stratford), now only a rare migrant. May; (summer); Aug. 9–Oct. Eggs, June 5, 1873.

155. CATOPTROPHORUS SEMIPALMATUS INORNATUS (Brewster) A. O. U. comm.

Western willet.

Symphemia semipalmata inornata Brewst., Auk, 1887, vol. 4, p. 145. "LARIMER COUNTY, COLORADO."

Totanus semipalmatus Temm. Swainson and Richardson, Fauna Boreali-Amer., 1831, vol. 2, p. 388, pl. 67.

Salt and fresh marshes, and beaches; nests on the ground.

MASS.— Rare fall migrant: Newburyport, Aug. 5, 1908 (and probably most of those now found).

CONN.— Rare fall migrant: Stony Creek, Aug. 15, 1897, and other fall birds.

156. PAVONCELLA PUGNAX (Linné) Leach.

Ruff (♂); **Reeve** (♀).

Tringa pugnax Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 148. "IN EUROPA MINUS BOREALI."

Machetes pugnax Linné. Dresser, Birds of Europe, 1871–81, vol. 8, p. [87], pls. [557, 558]. Egg, Seebohm, 1896, p. 135, pl. 42, figs. 4, 6.

Shores and marshes; nests on the ground.

ME.— Accidental from Old World: Camden, Sept. 14, 1900; Scarborough, April 10, 1870; Upton, Sept. 8, 1874.

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N. H.— Accidental visitor: Seabrook, Sept. 23, 1907.

MASS.— Accidental visitor: Chatham, Sept. 12, 1880; Nantucket, July, 1901; Newburyport marshes, May 20, 1871.

R. I.— Accidental visitor: Point Judith, Aug. 31, 1903; Sakonnet, July 30, 1900.

157. BARTRAMIA LONGICAUDA (Bechstein) Bonaparte.

Bartramian sandpiper; Field plover; Grass plover; Pasture plover; Upland plover.

Tringa longicauda Bechst., Kurze uebers. vögel Lathams, 1812, vol. 2, p. 453. NORTH AMERICA.

Tringa bartramia Wils. Audubon, Birds of Amer., 1842, vol. 5, p. 248, pl. 327. Egg, Capen, 1886, pl. 19, figs. 9, 10.

Grassy prairies and fields; nests on the ground.

ME.— Common migrant, and uncommon local summer resident. April 19–summer; Aug. 4–Sept. 16. Eggs, June 6.

N. H.— Now uncommon migrant and summer resident in southern part. May 4–Sept.

VT.— Uncommon migrant and local summer resident. April 24–Sept. Eggs, May 26.

MASS.— Rare spring and uncommon fall migrant, rare local summer resident; formerly commoner. April 3–May 10; summer; July 16–Sept. 14. Eggs, May 25–June 3 (June 22).

R. I.— Uncommon migrant; formerly more common and probably bred. April; Aug. 2–Sept. 18.

CONN.— Formerly common summer resident; now an uncommon migrant. May 2; fall.

158. TRYNGITES SUBRUFICOLLIS (Vieillot) Ridgway.

Buff-breasted sandpiper; Hill grass-bird.

Tringa subruficollis Vieill., Nouv. dict. d'hist. nat., 1819, vol. 34, p. 465. "PARAGUAY."

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Tringa rufescens Vieill. Audubon, Birds of Amer., 1842, vol. 5, p. 264, pl. 331. Egg, Seebohm, 1896, p. 151, pl. 43, fig. 11.

Grassy uplands and marshes; nests on the ground.

ME.— Rare fall migrant coastwise. Aug.–Sept. 5.

N. H.— Rare fall migrant coastwise: Portsmouth; Rye Beach, Aug. 25 and 28, 1871.

VT.— Doubtfully recorded.

MASS.— Rare fall migrant coastwise. July 28–Sept. 24.

R. I.— Rare fall migrant coastwise. Sept. 6–15.

CONN.— Rare fall migrant coastwise. Aug.–Sept. 30.

159. ACTITIS MACULARIA (Linné) Naumann.

Spotted sandpiper; Ox-eye; Peet-weet; Sand lark; Teeter peep; Tip-tail; Tip-up.

Tringa macularia Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 249. "IN EUROPA & AMERICA SEPTENTRIONALI."

Totanus macularius Wils. Audubon, Birds of Amer., 1842, vol. 5, p. 303, pl. 342. Egg, Capen, 1886, pl. 19, figs. 7, 8.

Seacoast and freshwater streams and lakes; nests on the ground.

ME.— Common migrant and summer resident. April 26–Oct. 3 (Nov. 19). Eggs, May 20–July 1.

N. H.— Common migrant and summer resident at lower elevations. May 1–Oct. Eggs, May 31.

VT.— Common migrant and summer resident at lower elevations. Late April–Sept.

MASS.— Common migrant and summer resident. (April 19) April 26–Nov. 6 (Nov. 14). Eggs, May 25–July 4.

R. I.— Common migrant and summer resident. (April 16)–Oct. 3. Eggs, May 27–June 6.

CONN.— Common migrant and summer resident. Late April–Oct. 6. Eggs, May 31–June 1.

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160. NUMENIUS AMERICANUS Bechstein.

Long-billed curlew; Great curlew; Hen curlew; Sickle-bill.

Bechst., Kurze uebers. vögel Lathams, 1812, vol. 4, pt. 2, p. 432. "NEW YORK & HUDSON BAY."

Numenius longirostris Wils. Audubon, Birds of Amer., 1843, vol. 6, p. 35, pl. 355.

Marshes and grassy flats; nests on the ground.

ME.— Very rare migrant. May 2; Aug.

N. H.— Formerly rare, now accidental migrant. Aug. 12–25.

MASS.— Now an accidental migrant. July 20–Oct. 18.

R. I.— Now an accidental migrant; last record Jamestown, Sept. 9, 1897. July 15–Sept. 9.

CONN.— Formerly uncommon, now accidental migrant. Aug. 3.

161. NUMENIUS HUDSONICUS Latham.

Hudsonian curlew; Blue-legs (young); **Foolish curlew** (young); **Jack curlew; Short-billed curlew.**

Lath., Index ornith., 1790, vol. 2, p. 712. "IN SINU HUDSONIS." Audubon, Birds of Amer., 1843, vol. 6, p. 42, pl. 356.

Beaches and marshes; nests on the ground.

ME.— Rare migrant. May 20; July 19–late Sept. (Oct. 12, 1898, Dover).

N. H.— Rare migrant. Aug. 6–Sept. 2.

MASS.— Rare spring and uncommon fall migrant. April 10–May 30 (June 8); (June 23) July 6–Oct. 1.

R. I.— Rare spring and uncommon fall migrant. April 27–May; July 2–Sept. 25.

CONN.— Rare migrant, mainly in fall. July 20–Aug. 27.

162. NUMENIUS BOREALIS (Forster) Latham.

Eskimo curlew; Dough-bird; Fute.

Swainson and Richardson, Fauna Boreali-Amer., 1831, vol. 2, p. 378, pl. 65. Egg, Seebohm, 1896, p. 133, pl. 45, fig. 3.

LIMICOLAE.

SCOLOPACIDAE.

Scolopax borealis Forst., Phil. trans. roy. soc. London, 1772, vol. 62, pp. 411, 431. "ALBANY FORT," HUDSON BAY.

Marshes, beaches, and grassy uplands; nests on the ground.

ME., N. H.— Formerly common fall migrant, coastwise. Late Aug.–Sept.

MASS.— Formerly a common fall migrant, accidental in spring. (Late May 1873, Cape Cod); July 15–Oct. 2.

R. I.— Formerly a common fall migrant coastwise. Aug. 27–Sept.

CONN.— Formerly a common fall migrant coastwise, now very rare. Aug.–Oct. 13.

CHARADRIIDAE.

163. SQUATAROLA SQUATAROLA (Linné) Cuvier.

Black-bellied plover; Beetlehead; Blackbreast; Blackheart; Frost-bird; Ox-eye; Palebelly (young); Whistling field plover.

Tringa squatarola Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 149. "IN EUROPA."

Charadrius helveticus Linné. Audubon, Birds of Amer., 1842, vol. 5, p. 199, pl. 315.

Beaches and marshes; nests on the ground.

ME., N. H.— Common migrant chiefly coastwise. May 12–(June 24); Aug.–Oct. 24.

VT.— Rare migrant: Lunenburg; Middlebury.

MASS.— Common migrant coastwise. April 15–June 13 (June 25); July 8–Nov. 16 (Dec. 1).

R. I.— Common migrant. May 15–22; Aug. 9–Oct. 15.

CONN.— Common migrant coastwise.

LIMICOLAE.

CHARADRIIDAE.

164. CHARADRIUS DOMINICUS Müller.

American golden plover; Bullhead; Frost-bird; Greenback; Greenhead; Green plover; Muddy breast; Pale belly; Pale breast; Three toes; Toad-head.

Müll., Linné's Vollstand. natursyst., suppl., 1776, p. 116. "ST. DOMINGO."

Charadrius marmoratus Wagl. Audubon, Birds of Amer., 1842, vol. 5, p. 203, pl. 316. Egg, Seebohm, 1896, p. 125, pl. 39, fig. 5.

Beaches, marshes, and open hilltops; nests on the ground.

ME.— Formerly common, now rare fall migrant coastwise. Aug. 12–Nov. 15.

N. H.— Rare migrant coastwise. (May); Aug. 26–mid-Oct.

VT.— Rare migrant: Lunenburg.

MASS.— Very rare spring, and formerly common but now rare fall migrant coastwise. (May); Aug. 12–Nov. 2 (Nov. 19; Nov. 25, 1908, Ipswich).

R. I.— Migrant, formerly rare in spring and common in fall coastwise; now very rare. (May); Aug. 14–Oct. 25.

CONN.— Formerly common migrant, now rare; mainly coastwise. Oct. 24.

165. OXYECHUS VOCIFERUS (Linné) Reichenbach.

Killdeer.

Charadrius vociferus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 150. "IN AMERICA SEPTENTRIONALI."

Aegialitis vocifera (Linné). Chapman, Handb. birds east. No. Amer., 1895, p. 173; Bird-life, 1898, pl. 11. Egg, Capen, 1886, pl. 18, figs. 8, 9.

Meadows, fields, and marshes; less often on beaches; nests on the ground.

ME.— Rare migrant and accidental visitor. Aug. 17–Oct. 24 (Nov. 28–Dec. 4, 1888).

LIMICOLAE.

CHARADRIIDAE.

N. H.— Rare migrant and accidental winter resident (1888–89); formerly rare summer resident.

Vt.— Rare migrant and summer resident (Lake Champlain).

Mass.— Rare migrant and summer resident; accidental winter resident (1888–89). Mar. 4–Dec. 15 (winter). Eggs, May 30.

R. I.— Uncommon migrant and rare summer resident; accidental winter resident in 1888–89. Mar.–Dec. (winter). Eggs, May 10–31.

Conn.— Rare migrant and summer resident, formerly more plentiful. (Feb. 24) late Mar.–May; summer. Eggs, June 6.

166. Aegialitis semipalmata (Bonaparte) Bonaparte.

Semipalmated plover; Little ring-neck; Ring-neck.

Charadrius semipalmatus Bonap., Journ. acad. nat. sci. Phila., 1825, vol. 5, p. 98. Based on Wilson: "New Jersey." Audubon, Birds of Amer., 1842, vol. 5, p. 218, pl. 320.

Sandy beaches and salt-marsh flats; nests on the ground.

Me.— Common migrant; mainly coastwise. May–(June 22); July 29–Sept.

N. H.— Common migrant, mainly coastwise.

Vt.— Rare migrant.

Mass.— Common migrant, mainly coastwise. Late April–June 14 (June 26); July 12–Oct. 28.

R. I.— Common migrant, mainly coastwise. April 19–May 15; July 6–Sept. 25.

Conn.— Common migrant, mainly coastwise. May 17–June; July–Sept.

167. Aegialitis melodus (Ord) Bonaparte.

Piping plover; Clam-bird; Mourning-bird; Pale ring-neck; Ring-neck.

Charadrius melodus Ord, Wilson's Amer. ornith., 1824, vol. 7,

LIMICOLAE.

CHARADRIIDAE.

p. 71. "Great Egg-Harbor," N. J. Audubon, Birds of Amer., 1842, vol. 5, p. 223, pl. 321. Egg, Capen, 1886, pl. 18, fig. 10.

Sandy beaches; nests on the ground.

Me.— Formerly a rare summer resident coastwise (Wells Beach). May 2–Aug.

N. H.— Rare migrant coastwise.

Vt.— Doubtfully recorded.

Mass.— Uncommon migrant and summer resident coastwise. (Mar. 26) April 5–Sept. 22. Eggs, May 10–June 14 (July 20).

R. I.— Uncommon migrant and summer resident coastwise. (Mar. 24) May 15–Sept. Eggs, June 5–14.

Conn.— Uncommon migrant and summer resident coastwise.

168. Ochthodromus wilsonius (Ord) Reichenbach.

Wilson's plover.

Charadrius wilsonia Ord, Wilson's Amer. ornith., 1814, vol. 9, p. 77, pl. 73, fig. 5. "Cape Island, Newjersey." Audubon, Birds of Amer., 1842, vol. 5, p. 214, pl. 319.

Sandy beaches and mudflats; nests on the ground.

Vt., N. H.— Doubtfully recorded.

Mass.— Accidental visitor: Gernet Pt., Plymouth, Aug. 22, 1877; Ipswich, May 8, 1904 (*nec* Nahant, Aug. 1839).

R. I.— Doubtfully included.

Conn.— Accidental visitor: Bridgeport, July 28, 1888 ("seen," Averill); Stratford (Linsley).

APHRIZIDAE.

169. Arenaria interpres (Linné) Vieillot.

European turnstone; Tangle-picker.

Tringa interpres Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 148. "in Europa & America septentrionali."

LIMICOLAE.

APHRIZIDAE.

Strepsilas interpres (Linné). Dresser, Birds of Europe, 1871–81, vol. 7, p. [555], pl. [532].

Seacoasts; nests on the ground.

MASS.— Accidental visitor: Monomoy Island, Sept. 8, 1892, (Bishop).

170. ARENARIA INTERPRES MORINELLA (Linné) A. O. U. comm.

Ruddy turnstone; Bead-bird; Brant-bird; Calico-back; Calico-bird; Chicken plover; Horsefoot snipe; Rock-bird; Rock plover; Stone plover; Turnstone.

Tringa morinella Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 249. "AD MARIS LITTORA AMERICAE SEPTENTRIONALIS; & EUROPAE."

Strepsilas interpres (Linné). Audubon, Birds of Amer., 1842, vol. 5, p. 231, pl. 323.

Seacoasts; nests on the ground.

ME.— Common migrant. May 22–27; July 28–Sept.

N. H.— Uncommon migrant.

VT.— Rare migrant: Lake Champlain.

MASS.— Uncommon migrant. May 1–31 (June 24); July 25–Oct. 16.

R. I.— Common migrant. May 14–20; Aug. 4–Oct. 8.

CONN.— Common migrant. May 23; Aug.–Sept.

HAEMATOPODIDAE.

171. HAEMATOPUS PALLIATUS Temminck.

American oyster-catcher.

Temm., Man. d'ornith., ed. 2, 1820, vol. 2, p. 532. "L'AMÉRIQUE MÉRIDIONALE." Audubon, Birds of Amer., 1842, vol. 5, p. 236, pl. 324. Egg, Gentry, Nests and eggs birds U. S., 1882, p. 277, pl. 47.

Seacoasts; nests on the ground.

LIMICOLAE.

HAEMATOPODIDAE.

Me.— Formerly at Portland (Audubon).

Mass.— Now an accidental visitor. Late April; Aug.

Conn.— Now very rare migrant; formerly more plentiful.

GALLINAE. PHASIANI.

TETRAONIDAE.

172. Colinus virginianus (Linné) Stejneger.

Bob-white; Quail; Virginia partridge.

Chapman, Handb. birds east. No. Amer., 1895, p. 178, pl. 1. Egg, Bendire, 1892, vol. 1, pl. 1, fig. 1.

Tetrao virginianus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 161. "America."

Weedy and brushgrown fields and edges of woods; nests on the ground.

Me., N. H.— Formerly common, now rare resident in southern counties; also introduced from the South.

Vt.— Rare resident at lower elevations; largely introduced.

Mass.— Uncommon resident; also introduced. Eggs, May–June 30 (Sept.).

R. I.— Common resident; also frequently introduced. Eggs, May 25–June 20 (! Oct. 10).

Conn.— Common resident, also introduced. Eggs, June 14–Aug. (! Sept. 2).

173. Canachites canadensis canace (Linné) Norton.

Canadian spruce grouse; Black grouse; Fool-hen; Spotted grouse; Spruce partridge; Wood partridge.

Tetrao canace Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 275. "Canada."

Tetrao canadensis Linné. Audubon, Birds of Amer., 1842, vol. 5, p. 83, pl. 294. Egg, Bendire, 1892, vol. 1, pl. 1, fig. 23.

Dense fir and spruce woods; nests on the ground.

ME.— Uncommon resident in northern forests. Eggs, May.

N. H.— Uncommon resident in northern part, and above 3000 ft. in White Mts. south to Mt. Passaconaway. Eggs, late May.

VT.— Uncommon resident in northernmost part (Victoria).

MASS.— Accidental visitor: Gloucester, Sept. 1851; Roxbury Nov. about 1865.

174. BONASA UMBELLUS (Linné) Stephens.

Ruffed grouse; Birch partridge; Partridge; Pheasant.

Tetrao umbellus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 275. "IN PENSYLVANIA." Audubon, Birds of Amer., 1842, vol. 5, p. 73, pl. 293. Egg, Bendire, 1892, vol. 1, pl. 2, fig. 1.

Woods and thickets; nests on the ground.

VT.— Nearly typical birds rarely found in south part; resident.

MASS.— Uncommon resident. Eggs, April 27–June 2.

R. I.— Common in northern and western parts. Eggs, May 8–19.

CONN.— Common resident. Eggs, April 21–May 20.

175. BONASA UMBELLUS TOGATA (Linné) Ridgway.

Canadian ruffed grouse; Partridge; Pheasant.

Ridgway, Manual No. Amer. Birds, 1887, p. 198. Egg, Bendire, 1892, vol. 1, pl. 2, fig. 2.

Tetrao togatus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 275. "CANADA."

Woods and thickets; nests on the ground.

ME.— Common resident. Eggs, April 27–May 25.

N. H.— Common resident up to tree limit on mountains.

VT.— Common resident.

GALLINAE. PHASIANI.

TETRAONIDAE.

MASS.— Resident; nearly typical birds occur in Berkshire Co. (North Adams).

176. LAGOPUS LAGOPUS (Linné) Stejneger.

Willow ptarmigan.

Tetrao lagopus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 159. "IN EUROPAE ALPINIS."

Lagopus albus Gmel. Audubon, Birds of Amer., 1842, vol. 5, p. 114, pl. 299 (summer). Egg, Bendire, 1892, vol. 1, pl. 2, fig. 5–10.

Dense thickets; nests on the ground.

ME.— Accidental visitor: near Dennisville (Audubon); Kenduskeag, April 23, 1892.

MASS.— Accidental visitor (or escape): Manchester, May 10, 1859.

R. I.— Doubtfully recorded.

177. TYMPANUCHUS CUPIDO (Linné) Ridgway.

Heath-hen; Eastern pinnated grouse; Hethen.

Tetrao cupido Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 160. "IN VIRGINIA." De Kay, Zool. New York, 1844, vol. 2, p. 205, pl. 77, fig. 175.

Cupidonia cupido Brewster, Auk, 1885, vol. 2, p. 82. Egg, Bendire, 1892, vol. 1, pl. 3, fig. 2.

Scrub-oak thickets; nests on the ground.

ME.— Ascribed by Audubon to Maine, but perhaps erroneously.

MASS.— Resident, now confined to Martha's Vineyard, but (till about 1815) occurring coastwise nearly to Boston, and in lower Connecticut valley. Eggs, June 2–July 24.

R. I.— Formerly common, but practically extirpated by 1800.

CONN.— Formerly common; extirpated before 1840 (Westford, about 1832, Nuttall).

GALLINAE. PHASIANI.

TETRAONIDAE.

178. MELEAGRIS GALLOPAVO SILVESTRIS (Vieillot) Allen.

Wild turkey.

Meleagris silvestris Vieill., Nouv. dict. d'hist. nat., 1817, vol. 9, p. 447. "ILLINOIS JUSQU'À L'ISTHME DE PANAMA."

Meleagris gallopavo Linné. Audubon, Birds of Amer., 1842, vol. 5, p. 42, pls. 287, 288. Egg, Bendire, 1892, vol. 1, pl. 3, fig. 14.

Woods and thickets; nests on the ground.

ME.— Formerly a resident in southern counties (to Mt. Desert?); now extirpated.

N. H.— Formerly a resident in southern part; last record in 1841 or '42.

VT.— Formerly resident in southern part; now extirpated.

MASS.— Formerly common resident; last recorded capture at Mt. Tom, winter of 1850–51.

R. I.— Formerly common resident.

CONN.— Formerly common resident; last killed about 1813 on Totoket Mt., Northford.

COLUMBAE.

COLUMBIDAE.

179. ECTOPISTES MIGRATORIUS (Linné) Swainson.

Passenger pigeon; Wild pigeon.

Columba migratoria Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 285. "IN AMERICA SEPTENTRIONALI."

Ectopistes migratoria (Linné). Audubon, Birds of Amer., 1842, vol. 5, p. 25, pl. 285. Egg, Bendire, 1892, vol. 1, pl. 4, fig. 6.

Woods and fields; nests in trees in colonies.

ME.— Formerly an abundant migrant and local summer resident; last specimens taken near Dexter, Aug. 16, 1896, and at Bar Harbor, early summer 1904. April 7–Sept.

COLUMBAE.

COLUMBIDAE.

N. H.— Formerly abundant migrant and local summer resident; last specimen taken at Concord, 1885. April 2–18; summer–Oct. 10.

Vt.— Formerly abundant migrant and summer resident. Mar. 20–Oct. 10.

Mass.— Formerly abundant migrant and common local summer resident, rare in winter; last recorded in 1889. Mar. 10–Oct. 21 (winter). Eggs, May 22.

R. I.— Formerly abundant migrant; last killed in 1886.

Conn.— Formerly an abundant migrant, and common summer resident. April 2–fall. Eggs, late May.

180. Zenaidura macroura carolinensis (Linné) A. O. U. comm.

Mourning dove; Carolina dove; Long-tailed dove; Turtle dove.

Columba carolinensis Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 286. "in America."

Zenaidura macroura (Linné). Chapman, Handb. birds east. No. Amer., 1895, p. 188; Bird-life, 1898, pl. 13. Egg, Bendire, 1892, vol. 1, pl. 4, figs. 8, 9.

Open woods and fields; nests in trees, or rarely on the ground.

Me.— Rare migrant and summer resident in southern part; accidental in winter. Mar. 21–Oct. 24 (Nov. 21 and winter).

N. H.— Rare migrant and summer resident in southern part. Late Mar.–Oct. (Dec. 15).

Vt.— Rare summer resident: Rutland Co.

Mass.— Uncommon migrant and summer resident; rare winter resident. Mar. 5–Nov. 15 (winter). Eggs, April 19–May 20.

R. I.— Uncommon summer resident in northern and western parts. April 3–Oct. 15. Eggs, May 15–25.

Conn.— Uncommon summer and rare winter resident. Mar.–Nov. (winter). Eggs, May 24–June 20 (July 27).

COLUMBAE.

COLUMBIDAE.

181. STARNOENAS CYANOCEPHALA (Linné) Bonaparte.

Blue-headed quail-dove.

Columba cyanocephala Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 163. "AMERICA." Audubon, Birds of Amer., 1842, vol. 5, p. 23, pl. 284.

Thickets and woods; nests among vines.

MASS.— One taken at Brookline, Oct. 10, 1870, probably an escape.

RAPTORES. SARCORHAMPHI.

CATHARTIDAE.

182. CATHARTES AURA SEPTENTRIONALIS (Wied) Nelson.

Turkey vulture; Turkey buzzard.

Cathartes septentrionalis Wied, Reise Nord-America, 1839, vol. 1, p. 162. Locality elsewhere given as NEAR NEW HARMONY, INDIANA.

Cathartes aura Linné. Audubon, Birds of Amer., 1840, vol. 1, p. 15, pl. 2. Egg, Bendire, 1892, vol. 1, pl. 4, figs. 1, 3.

Open country; nests on ground in shallow caves or in hollow logs.

ME.— Accidental visitor at all seasons (eight records).

N. H.— Accidental visitor: Hampton Falls, April 1882; North Weare, spring 1887.

VT.— Accidental visitor: Eutaw.

MASS.— Occasional visitor at all seasons.

R. I.— Occasional visitor; four records. May 10–Nov.

CONN.— Occasional (mainly summer) visitor. April 20–Oct. 18.

183. CATHARISTA URUBU (Vieillot) Vieillot.

Black vulture; Black-headed buzzard; Carrion crow; Jim crow.

Vultur urubu Vieill., Hist. nat. ois. Amér. Sept., 1807, vol. 1,

RAPTORES. SARCORHAMPHI.

CATHARTIDAE.

p. 23, pl. 2. "L'AMÉRIQUE, DEPUIS LA NOUVELLE-ECOSSE JUSQU'À LA TERRE DE FEU."

Cathartes atratus Wils. Audubon, Birds of Amer., 1840, vol. 1, p. 17, pl. 3. Egg, Bendire, 1892, vol. 1, pl. 4, figs. 7, 10.

Open country and vicinity of dwellings; nests on the ground.

ME.— Accidental visitor. Aug. 20–Nov. 3.

VT.— Accidental visitor: Lunenburg; Woodbury, July 10, 1884.

MASS.— Accidental visitor. July–Nov.

CONN.— Accidental visitor: East Lyme, July 6, 1901.

FALCONES.

FALCONIDAE.

184. ELANOIDES FORFICATUS (Linné) Coues.

Swallow-tailed kite.

Chapman, Handb. birds east. No. Amer., 1895, p. 196; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 1. Egg, Bendire, 1892, vol. 1, pl. 5, figs. 1, 2.

Falco forficatus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 89. "AMERICA."

Open country; nests in tall trees.

ME.— Erroneously recorded.

N. H.— Doubtfully recorded (Franklin, 1875).

VT.— Doubtfully recorded (Williams).

MASS.— Accidental visitor: Amesbury (= West Newbury) about Sept. 25, 1882; Whately; (?) near Northampton, 1880.

CONN.— Accidental visitor: Lyme, July 2, 1877; Portland, summer 1861; Saybrook, June 16, 1889.

185. CIRCUS HUDSONIUS (Linné) Vieillot.

Marsh hawk; Blue hawk; Bog-trotter; Frog hawk; Harrier; Mole hawk; Mouse hawk; Mouser; Snake hawk.

A. K. Fisher, Hawks and owls of U. S., 1893, p. 26, pl. 3. Egg, Bendire, 1892, vol. 1, pl. 5, fig. 8–10.

FALCONIDAE.

Falco hudsonius Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 128. "AD FRETUM HUDSONIS."

Open country, fields, marshes; nests on the ground.

ME.— Common migrant, less common summer resident. Mar. 19–Oct. 7 (Nov. 12). Eggs, June 4.

N. H.— Common migrant, uncommon summer resident. Mar. 16–Nov. 12.

VT.— Uncommon summer resident. April 14–Oct.

MASS.— Common migrant, uncommon summer resident; rare winter resident on the coast. Mar. 1–Nov. 29 (winter). Eggs, May 12–June 8.

R. I.— Common migrant, rare summer and winter resident. Mar. 15–Oct. 29 (winter). Eggs, May 23, 25.

CONN.— Common migrant, uncommon summer resident; winters rarely. Mar.–Nov. 6 (winter). Eggs, May 9–June 9.

186. ACCIPITER VELOX (Wilson) Vigors.

Sharp-shinned hawk; Pigeon hawk.

Chapman, Handb. birds east. No. Amer., 1895, p. 198; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 4. Egg, Bendire, 1892, vol. 1, pl. 5, fig. 11–17.

Falco velox Wils., Amer. ornith., 1812, vol. 5, p. 116, pl. 45, fig. 1. "BANKS OF THE SCHUYLKILL."

Open or wooded country; nests in trees.

ME.— Common migrant, less common summer resident; rare winter resident (Portland, 1905; Westbrook, 1907). Mar. 27–Nov. 23 (winter). Eggs, June 1.

N. H.— Common migrant, less common summer resident; rare winter resident in southern part. Eggs, May 23–June 1.

VT.— Uncommon summer and rare winter resident.

MASS.— Common migrant, uncommon summer and winter resident. Eggs, May 3–June 10.

R. I.— Uncommon migrant, rare summer and winter resident. Eggs, May 23, 25.

CONN.— Common migrant, less common summer and winter resident. Eggs, May 15–June 26.

187. ACCIPITER COOPERII (Bonaparte) Gray.

Cooper's hawk; Chicken hawk.

Chapman, Handb. birds east. No. Amer., 1895, p. 199; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 5. Egg, Bendire, 1892, vol. 1, pl. 5, fig. 18–20.

Falco cooperii Bonap., Amer. ornith., 1828, vol. 2, p. 1, pl. 10, fig. 1. "NEAR BORDENTOWN, NEW JERSEY."

Open country and woods; nests in trees.

ME.— Uncommon summer resident. April 4–Oct. 24 (? Jan. 16).

N. H.— Uncommon migrant and summer resident at lower elevations. Mar. 26–Oct. Eggs, May 12–30.

VT.— Uncommon migrant and summer resident; (? winter). Eggs, April 22.

MASS.— Uncommon migrant and summer resident; rare in winter. Eggs, April 25–June 11.

R. I.— Common migrant, less common summer resident; probably winters rarely. Eggs, May 12–14.

CONN.— Common migrant, less common summer and winter resident. Eggs, April 25–June 18.

188. ASTUR ATRICAPILLUS (Wilson) Bonaparte.

American goshawk; Blue hawk; Partridge hawk.

Falco atricapillus Wils., Amer. ornith., 1812, vol. 6, p. 80, pl. 52, fig. 3. NEAR "PHILADELPHIA."

Accipiter atricapillus (Wils.). Chapman, Handb. birds east.

No. Amer., 1895, p. 199; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 6. Egg, Bendire, 1892, vol. 1, pl. 6, fig. 1.

Open country and heavy woods; nests in trees.

ME.— Common winter resident, less common summer resident. Oct. 26–May; summer. Eggs, April 25–May.

N. H.— Irregularly common winter resident; rare summer resident south to Alstead.

VT.— Irregular winter visitor; rare summer resident south to Rutland, Mendon. Eggs, April 23–May 1.

MASS.— Winter visitor, irregularly common; casual summer visitor (Hoosac Mt., Aug. 15, 1900). Oct. 4–Feb. 26.

R. I.— Irregular winter visitor, sometimes common. Oct. 27–Feb. 14.

CONN.— Irregular winter visitor, sometimes common; accidental in late summer. (Aug. 24, 1893, West Haven) Oct. 2–winter.

189. BUTEO BOREALIS (Gmelin) Vieillot.

Red-tailed hawk or buzzard; Hen hawk.

Chapman, Handb. birds east. No. Amer., 1895, p. 200; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 7. Egg, Bendire, 1892, vol. 1, pl. 6, figs. 5, 6.

Falco borealis Gmel., Syst. nat., 1788, vol. 1, pt. 1, p. 266. "IN AMERICA BOREALI, POTISSIMUM CAROLINA."

Open country and forests; nests in large trees.

ME.— Uncommon summer resident, and in southern counties rare winter resident. Eggs, May 6–26.

N. H.— Uncommon resident, wintering from White Mts. south.

VT.— Uncommon resident. Eggs, April 22.

MASS.— Uncommon migrant and winter resident; rare summer resident. Eggs, April 6–27.

R. I.— Uncommon winter, and rare summer resident. Nov. 30–Mar. 25; summer. Eggs, April 5–30.

Conn.— Uncommon migrant and winter resident; rare summer resident. Sept.–Mar.; summer. Eggs, Mar. 28–April 24 (May 25).

190. Buteo lineatus (Gmelin) Vieillot.

Red-shouldered hawk; Chicken hawk; Hen hawk; Winter hawk.

Chapman, Handb. birds east. No. Amer., 1895, p. 201; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 8. Egg, Bendire, 1892, vol. 1, pl. 7, fig. 1–5.

Falco lineatus Gmel., Syst. nat., 1788, vol. 1, pt. 1, p. 268. "in insula Longa," New York.

Open country and woods; nests in large trees.

Me.— Uncommon summer resident. (Mar. 4) Mar. 20–Oct. 21. Eggs, late April–May 24.

N. H.— Uncommon summer resident north to southern valleys of White Mts. Mar. 27–Nov.

Vt.— Uncommon summer resident (? winters). Mar. 17–fall. Eggs, April 22.

Mass.— Common migrant, less common summer and winter resident. Eggs, April 3–June 6.

R. I.— Uncommon resident. Eggs, April 5–13.

Conn.— Common migrant and winter resident, less common summer resident. Eggs, April 5–June 1.

191. Buteo swainsoni Bonaparte.

Swainson's hawk.

Bonap., Geogr. and comparative list birds Europe and No. Amer., 1838, p. 3. Based on Audubon: "near the Columbia River." Chapman, Handb. birds east. No. Amer., 1895, p. 203; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 9. Egg, Bendire, 1892, vol. 1, pl. 8, fig. 1–6.

FALCONIDAE.

Open prairie country or edges of woods near streams; nests in trees.

ME.— Occasional visitor from West. May 19; Sept. 15, Oct. 8.
VT.— Rare visitor: Lunenburg.
MASS.— Rare visitor (four records). April 20–Nov. 7.

192. BUTEO PLATYPTERUS (Vieillot) Faxon.

Broad-winged hawk.

Sparvius platypterus Vieill., Encycl. méthod. ornith., 1823, vol. 3, p. 1273. Based on Wilson: "NEAR THE SCHUYLKILL."
Buteo latissimus (Wils.). Chapman, Handb. birds east. No. Amer., 1895, p. 204; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 10. Egg, Bendire, 1892, vol. 1, pl. 7, fig. 10–13.
Woodlands, and along streams; nests in trees.

ME.— Uncommon summer resident. (Mar. 31) April 11–Sept. 17. Eggs, May 2–June 12.
N. H.— Uncommon migrant and summer resident. April 8–Sept. 15. Eggs, May 16.
VT.— Uncommon summer resident. April 14–fall.
MASS.— Uncommon migrant, and in remoter districts, a rare summer resident. April 12–Sept. 30 (Oct. 16). Eggs, May 7–31.
R. I.— Uncommon migrant and rare summer resident. April–Oct. Eggs, May 15–19.
CONN.— Uncommon migrant, and rare summer (and ? winter) resident. Eggs, May 3–18.

193. ARCHIBUTEO LAGOPUS SANCTI-JOHANNIS (Gmelin) Coues.

American rough-legged hawk; Black hawk.

Chapman, Handb. birds east. No. Amer., 1895, p. 205; A. K. Fisher, Hawks and owls of U. S. 1893, pl. 11. Egg, Bendire, 1892, vol. 1, pl. 8, fig. 10–12.

FALCONIDAE.

Falco S. johannis Gmel., Syst. nat., 1788, vol. 1, pt. 1, p. 273. "IN FRETO HUDSONIS ET NOVA TERRA."

Open country; nests on cliffs or in trees.

ME.— Uncommon fall and winter visitor. Oct. 28–Mar.

N. H.— Uncommon irregular fall and winter visitor. Oct.–(May 6).

VT.— Rare fall and winter visitor. Oct.

MASS.— Rare fall and winter visitor. Oct.–April 13 (May 8).

R. I.— Uncommon fall and winter visitor. Oct.–April 12.

CONN.— Fall and winter visitor, irregular, but sometimes common. Nov. 20–April.

194. AQUILA CHRYSAËTOS (Linné) Sprüngli.

Golden eagle; Ring-tailed eagle.

Chapman, Handb. birds east. No. Amer., 1895, p. 206; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 13. Egg, Bendire, 1892, vol. 1, pl. 9, figs. 3, 5.

Falco chrysaëtos Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 88. "IN EUROPA."

Mountainous country; nests on cliffs or in large trees.

ME.— Rare visitor; not now known to breed (young (?), Sandy Bay Mt., 1895).

N. H.— Rare visitor; formerly rare resident in White Mts.

VT.— Rare visitor; formerly a resident.

MASS.— Rare visitor at all seasons, not now known to breed.

R. I.— Rare visitor in fall and winter.

CONN.— Rare visitor, at all seasons.

195. HALIAEETUS LEUCOCEPHALUS (Linné) Boie.

Bald eagle; Gray eagle; Washington eagle (young); **White-headed eagle.**

Chapman, Handb. birds east. No. Amer., 1895, p. 207; A. K.

Fisher, Hawks and owls of U. S., 1893, pl. 14. Egg, Bendire, 1892, vol. 1, pl. 9, fig. 7.

Falco leucocephalus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 124. "IN AMERICA, EUROPA."

Open wild country, especially near lakes and seacoasts; nests in tall trees or on the ground.

ME.— Uncommon migrant and summer resident; less common winter resident coastwise. Eggs, April 4–21.

N. H.— Uncommon migrant and summer resident; rare in winter in southern part.

VT.— Uncommon migrant and summer resident.

MASS.— Uncommon migrant and, near coast, occasional at all seasons. No recent breeding records (formerly on Mt. Tom).

R. I.— Occasional at all seasons, though not known to breed.

CONN.— Occasional at all seasons, but most frequent as a migrant; formerly bred (Mt. Carmel, Saltonstall Ridge, West Peak).

196. FALCO ISLANDUS Brünnich.

White gyrfalcon; White or Speckled hawk.

Brünn., Ornith. borealis, 1764, p. 2. "ISLANDIA."

Falco islandicus Lath. Audubon, Birds of Amer., 1840, vol. 1, p. 81, pl. 19. Egg, Seebohm, 1896, p. 4, pl. 1, fig. 2.

Open country and barrens; nests on sea cliffs.

ME.— Accidental visitor: South Winn, Oct. 8, 1893; (*nec* Cape Elizabeth).

N. H.— Doubtfully recorded (Errol, Nov. 4, 1868, Maynard).

MASS.— Doubtfully recorded (Cambridge, Jan.–Feb., 1833, Nuttall).

197. FALCO RUSTICOLUS Linné.

Gray gyrfalcon.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 88. "IN SVECIA."

FALCONIDAE.

Coues, Key to No. Amer. birds, ed. 5, 1903, vol. 2, p. 665; Brisson, Ornith., 1760, vol. 1, pl. 31.

Open country; nests on cliffs.

Me.— Accidental visitor: Cape Elizabeth, Oct. 13, 1877.

198. Falco rusticolus gyrfalco (Linné) Stejneger.

Gyrfalcon; MacFarlane's gyrfalcon.

Ridgway, Manual No. Amer. birds, 1887, p. 245–246.

Falco gyrfalco Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 91. "in Europa." Dresser, Birds of Europe, 1871–81, vol. 6, pl. [367]. Egg, Bendire, 1892, vol. 1, pl. 9, figs. 6, 8, 9.

Open or mountainous country; nests on cliffs.

Me.— Very rare winter visitor: Jacques Id., Mar. 7, 1907; Ktaadn Iron Works, December, 1876; "Maine;" North Deering, Dec. 11, 1906.

Vt.— Doubtfully recorded.

Mass.— Very rare winter visitor: Melrose, Jan. 1, 1891; Northampton, Feb., 1880; Stowe, 1881.

R. I.— Very rare winter visitor: Point Judith, Oct. 11, 1883; near Providence, winter, 1864–65.

199. Falco rusticolus obsoletus (Gmelin) Stejneger.

Black gyrfalcon; Labrador gyrfalcon.

Ridgway, Manual No. Amer. birds, 1887, p. 245–246.

Falco obsoletus Gmel., Syst. nat., 1788, vol. 1, pt. 1, p. 268. "in freto Hudsonis."

Falco labradora Audubon, Ornith. biogr., vol. 2, pl. 196. Egg, Bendire, 1892, vol. 1, pl. 10, fig. 1.

Open and mountainous country; nests on cliffs or rarely in trees.

Me.— Rare fall and winter visitor. Sept.–Mar. 22.

N. H.— Rare winter visitor: Milford, January, 1891.

MASS.— Rare fall and winter visitor (four records). Oct.–Mar. 11.

R. I.— Rare fall and winter visitor: Conanicut Id., Nov. 22, 1891; Newport, Oct. 28, 1896; Tiverton, Dec. 26, 1896.

200. FALCO PEREGRINUS ANATUM (Bonaparte) Blasius.

Duck hawk; American peregrine falcon; Black hawk (VT.); **Bullet hawk; Great-footed hawk; Ledge hawk.**

Chapman, Handb. birds east. No. Amer., 1895, p. 209; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 15. Egg, Bendire, 1892, vol. 1, pl. 10, fig. 5–7.

Falco anatum Bonap., Geogr. and comparative list birds Europe and No. Amer., 1838, p. 4. "NORTHERN PARTS" of No. America.

Open and mountainous country; nests on ledges or in cavities of large trees.

ME.— Rare summer resident. Mar. 14–Oct. Eggs, April 14.

N. H., VT.— Rare migrant and local summer resident. Mar. 14–Oct. VT., Eggs, May 2–June 30.

MASS.— Rare migrant, and in western mountains, rare local summer resident; rare in winter. Eggs, April 15–May 23.

R. I.— Rare migrant. May; Oct.

CONN.— Rare migrant, summer and winter resident. Eggs, May 9 (large young, May 25, Talcott Mt.).

201. FALCO COLUMBARIUS Linné.

Pigeon hawk.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 90. "AMERICA." Chapman, Handb. birds east. No. Amer., 1895, p. 210; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 16. Egg, Bendire, 1892, vol. 1, pl. 10, figs. 4, 8.

Woods and open country; nests in low trees.

FALCONIDAE.

ME. — Uncommon migrant, rare in winter and summer; probably breeds in northern counties (fledglings noted, Knight). Mar. 28–May 13; (summer ; Sept.–Oct. 10 (Dec. 1, 1906, Westbrook; Feb. 22, 1907, Scarborough).

N. H.— Uncommon migrant. May; Aug.–Sept.

VT.— Uncommon migrant; doubtfully recorded in summer.

MASS.— Uncommon migrant and rare winter resident. April 10–May 16; Sept. 7–Nov. 24; winter.

R. I.— Uncommon migrant, mainly in fall, and rare winter resident. April 24–May; Sept. 3–Nov. 21 (Jan.).

CONN.— Uncommon migrant and rare winter resident; doubtfully recorded in summer. April; (? Aug.); Sept. 25–Nov.; winter.

202. FALCO TINNUNCULUS Linné.

Kestrel.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 90. "IN EUROPAE TURRIBUS." Dresser, Birds of Europe, 1871–81, vol. 6, p. [113], pl. [384]. Egg, Seebohm, 1896, p. 7, pl. 4, fig. 5.

Open and wooded country; nests in dense woods, on cliffs, or in towers of buildings.

MASS.— Accidental visitor from Old World: Nantasket Beach, Sept. 29, 1889.

203. FALCO SPARVERIUS Linné.

American sparrow hawk; Killyhawk; Pigeon hawk.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 90. "AMERICA." Chapman, Handb. birds east. No. Amer., 1895, p. 211; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 17. Egg, Bendire, 1892, vol. 1, pl. 10, fig. 11–16.

Open country; nests in cavities of trees or rarely of buildings.

ME.— Uncommon migrant and summer resident; rare winter

resident in southern part (Portland, 1907–08; Yarmouth, Jan. 10, 1904). Mar. 19–Oct. 15 (winter). Eggs, May 30.

N. H.— Uncommon migrant and rare summer resident north to White Mt. valleys. Mar. 15–Oct. Eggs, May 16.

Vt.— Uncommon migrant and summer resident. Mar. 21–fall.

Mass.— Uncommon migrant and summer resident; uncommon winter resident near coast. Eggs, April 27–May 26.

R. I.— Uncommon migrant, rare winter and summer resident. Eggs, May 10.

Conn.— Uncommon resident. Eggs, April 26–May 7.

204. Pandion haliaëtus carolinensis (Gmelin) Ridgway.

American osprey; Fish hawk.

Chapman, Handb. birds east. No. Amer., 1895, p. 212; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 18. Egg, Bendire, 1892, vol. 1, pl. 10, fig. 17; pl. 11, fig. 5–9.

Falco haliaëtos γ. *carolinensis* Gmel., Syst. nat., 1788, vol. 1, pt. 1, p. 263. "America."

Seacoasts and vicinity of large streams and lakes; nests in high or low trees, on rocks or artificial sites.

Me.— Common summer resident. (Mar. 28) April 5–Oct. 15. Eggs, May 8–June 19.

N. H.— Uncommon migrant; formerly bred at Lake Umbagog. April; Aug.–Nov. 1.

Vt.— Uncommon migrant.

Mass.— Common migrant, and in Bristol Co. a summer resident. (Mar. 16) April 2–May 29; summer; Aug. 26–Nov. 11. Eggs, May 8–July.

R. I.— Common migrant and summer resident coastwise. Mar. 24–Oct. 21. Eggs, May 2–24.

Conn.— Common migrant and uncommon summer resident coastwise. Mar. 20–Nov. 13 (Dec. 1). Eggs, May 5–July 4.

ALUCONIDAE.

205. ALUCO PRATINCOLA (Bonaparte) A. O. U. comm.

American barn owl; Monkey-faced owl.

Strix pratincola Bonap., Geogr. and comparative list birds Europe and No. Amer., 1838, p. 7. "NORTHERN PARTS" of No. America. Chapman, Handb. birds east. No. Amer., 1895, p. 213; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 19. Egg, Bendire, 1892, vol. 1, pl. 12, fig. 1.

Open country, hiding in hollow trees and cavities during the day; nests in hollow trees, burrows, cavities in cliffs or buildings.

ME.— Erroneously recorded from Falmouth.

VT.— Accidental visitor: Danby, 1902; Lyndon, June 4, 1894.

MASS.— Rare visitor. May–Dec.

R. I.— Rare visitor; five records.

CONN.— Rare visitor. June 11–Oct. 28.

STRIGIDAE.

206. ASIO WILSONIANUS (Lesson) Coues.

American long-eared owl; Cat owl.

Chapman, Handb. birds east. No. Amer., 1895, p. 214; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 20. Egg, Bendire, 1892, vol. 1, pl. 1, fig. 2.

Otus wilsonianus Less., Traité d'ornith., vol. 1, 1831, p. 110. "LES ÉTATS-UNIS....PENSYLVANIE....NEW-YORK."

Dense woods and swamps; nests in trees, usually in old crow or hawk nests.

ME., N. H., VT.— Uncommon resident. Eggs, May 1.

MASS.— Uncommon fall and winter visitor, rare summer resident. Eggs, April 1–May 14.

R. I.— Rare resident. Eggs, April 10.

CONN.— Uncommon resident. Eggs, early April–April 25.

STRIGIDAE.

207. ASIO FLAMMEUS (Pontoppidan) A. O. U. comm.

Short-eared owl; Bog owl; Gray marsh owl; Marsh owl.

Strix flammea Pontopp., Danske atlas, 1763, vol. 1, p. 617, pl. 25. Based on Linné: [Sweden].

Asio accipitrinus (Pallas). Chapman, Handb. birds east. No. Amer., 1895, p. 215; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 21. Egg, Bendire, 1892, vol. 1, pl. 12, fig. 3.

Open country and marshes; nests on the ground.

ME.— Uncommon resident, more common migrant near coast.

N. H.— Uncommon migrant. April; Nov.

VT.— Uncommon migrant (? winters).

MASS.— Uncommon migrant mainly near coast, rare in winter; rare summer resident. Mar. 15–April 15; summer; Sept. 24–Nov. 30 (winter).

R. I.— Uncommon migrant and rare summer resident; may winter rarely. April; Oct. 26–Dec. 23. Eggs, April 28.

CONN.— Uncommon migrant; rare summer and winter resident.

208. STRIX VARIA Barton.

Barred owl; Barn owl (Me.); **Black-eyed owl; Hoot owl; Round-headed owl.**

Strix varius Barton, Fragm. nat. hist. Penna., 1799, p. 11. "PENNSYLVANIA."

Syrnium nebulosum (Forst.). Chapman, Handb. birds east. No. Amer., 1895, p. 215; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 22. Egg, Bendire, 1892, vol. 1, pl. 12, fig. 4.

Heavy woods, preferably near water; nests in hollows of trees or in abandoned hawk or crow nests.

ME.— Rather common resident. Eggs, Mar. 27.

N. H.— Rather common resident up to 3000 feet.

VT.— Rather common resident.

STRIGIDAE.

MASS.— Uncommon resident, more frequent in fall migration. Eggs, Mar. 27–May 13.

R. I.— Uncommon resident, occasionally more common in fall and winter. Eggs, Mar. 15–April 12.

CONN.— Uncommon resident. Eggs (Feb.), Mar. 1–April 30 (May 10).

209. SCOTIAPTEX NEBULOSA (Forster) Preble.

Great gray owl; Cinereous owl; Spectral owl.

Strix nebulosa Forst., Phil. trans. roy. soc. London, 1772, vol. 62, p. 424. "CIRCA SINUM HUDSONIS."

Strix cinerea Gmel. Swainson and Richardson, Fauna Boreali-Amer., 1831, vol. 2, p. 77, pl. 31. Egg, Bendire, 1892, vol. 1, pl. 12, fig. 5.

Wooded country; nests in trees.

ME.— Rare and irregular winter visitor. Nov. 8–Mar. 2.

N. H.— Rare winter visitor.

VT.— Rare and irregular winter visitor. Nov. 27–Feb. 11.

MASS.— Rare winter visitor. Nov. 10–Mar. 4.

R. I.— Very rare winter visitor: Fox Island, Mar. 25, 1883; near Providence, 1870, Nov. 19, 1906.

CONN.— Rare winter visitor: North Haven, Jan. 18, 1893; Stratford, Jan. 6, 1843.

210. GLAUX FUNEREA RICHARDSONI (Bonaparte) A. O. U. comm.

Richardson's owl; Sparrow owl.

Nyctale richardsoni Bonap., Geogr. and comparative list birds Europe and No. Amer., 1838, p. 7. Based on Audubon: "AT BANGOR, IN MAINE, ON THE PENOBSCOT RIVER."

Strix tengmalmi Linné. Swainson and Richardson, Fauna Boreali-Amer., 1831, vol. 2, p. 94, pl. 32. Egg, Bendire, 1892, vol. 1, pl. 12, fig. 6.

Wooded country; nests in holes in trees.

ME.— Winter visitor of irregular abundance. (Sept.) Nov. 30–Mar. 16.

N. H.— Rare winter visitor. Dec. 15–Mar. 1.

VT.— Rare winter visitor.

MASS.— Rare winter visitor. Nov. 26–Mar.

R. I.— Rare winter visitor (four records). Dec. 18.

CONN.— Rare winter visitor: East Windsor, 1859.

211. GLAUX ACADICUS (Gmelin) A. O. U. comm.

Saw-whet owl; Acadian owl; Little owl.

Strix acadica Gmel., Syst. nat., 1788, vol. 1, pt. 1, p. 296. "IN AMERICA SEPTENTRIONALI."

Nyctala acadica (Gmel.). Chapman, Handb. birds east. No. Amer., 1895, p. 217.

Ulula acadica (Gmel.). Audubon, Birds of Amer., 1840, vol. 1, p. 123, pl. 33. Egg, Bendire, 1892, vol. 1, pl. 12, fig. 7.

Dense woods; nests in old woodpecker holes or cavities of trees.

ME., N. H.— Uncommon resident. Eggs, April 6.

VT.— Uncommon resident, mainly in northern part.

MASS.— Uncommon resident, breeding locally. Eggs, April 4–May 1 (July 3).

R. I.— Uncommon winter visitor; may breed rarely. Nov.–Feb.

CONN.— Rare resident.

212. OTUS ASIO (Linné) Stone.

Screech owl; Cat owl; Little horned owl; Mottled owl; Red owl.

Strix asio Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 92. "AMERICA."

STRIGIDAE.

Megascops asio (Linné). Chapman, Handb. birds east. No. Amer., 1895, p. 218; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 23. Egg, Bendire, 1892, vol. 1, pl. 12, fig. 8.

Open woods, orchards, and shade trees; nests in cavities of trees.

Me.— Rare resident.

N. H.— Uncommon resident of southern part, becoming rare in southern valleys of White Mts.

Vt.— Uncommon resident at lower elevations.

Mass.— Common resident. Eggs, April 15–May 5.

R. I.— Common resident. Eggs, April 7–May 2.

Conn.— Common resident. Eggs, April 7–26.

213. Bubo virginianus (Gmelin) Bonaparte.

Great horned owl; Cat owl; Eagle owl; Hoot owl.

Chapman, Handb. birds east. No. Amer., 1895, p. 219; A. K. Fisher, Hawks and owls of U. S., 1893, pl. 24. Egg, Bendire, 1892, vol. 1, pl. 12, fig. 12.

Strix virginiana Gmel., Syst. nat., 1788, vol. 1, pt. 1, p. 287. "in omni America, in Astracania ad Camschatcam usque, et polo arctico propius."

Heavy woods; nests in cavities of trees, in open nests on the branches, or rarely on the ground.

Me., N. H.— Uncommon resident. Eggs, Mar. 11–23.

Vt.— Uncommon resident.

Mass.— Uncommon resident. Eggs, Feb. 17–April 20.

R. I.— Rare resident. Eggs, Feb. 28–Mar. 11.

Conn.— Uncommon resident. Eggs, Feb. 19–Mar. 8 (April 12, second laying).

214. Bubo virginianus subarcticus (Hoy) Ridgway.

Arctic horned owl.

Bubo subarcticus Hay, Proc. acad. nat. sci. Phila., 1852, vol. 6, p. 211. "Wisconsin."

STRIGIDAE.

Strix arctica Swains. Swains. and Richardson, Fauna Boreali-Amer., 1831, vol. 2, p. 87, pl. 32.

Heavy woods or open country; nests probably in cavities of trees, or on their branches.

ME.— Accidental visitor: "Maine"; Brownfield, 1886. (Knight supposes these to be "pale or faded individuals of the typical Horned Owl.")

MASS.— Accidental visitor: Waltham, Nov. 30, 1867.

215. BUBO VIRGINIANUS HETEROCNEMIS (Oberholser) A. O. U. comm.

Labrador horned owl.

Asio magellanicus heterocnemis Oberh., Proc. U. S. nat. mus., 1904, vol. 27, p. 187 "LANCE AU LOUP, LABRADOR."

Dense forests; nests in trees.

ME.— Accidental visitor: near Portland, Mar. 1870 (recorded as *B. v. saturatus*).

216. NYCTEA NYCTEA (Linné) Lichtenstein.

Snowy owl; Arctic owl; White owl.

Strix nyctea Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 93. "IN EUROPA & AMERICA SEPTENTRIONALI."

Surnia nyctea (Linné). Audubon, Birds of Amer., 1840, vol. 1, p. 113, pl. 28. Egg, Bendire, 1892, vol. 1, pl. 12, fig. 19.

Open country and barren grounds; nests on the ground.

ME.— Uncommon fall and winter visitor. (Sept.) Oct. 15–Feb.

N. H.— Late fall and winter visitor, sometimes common; accidental in summer (Concord, July). Oct. 10–April (July).

VT.— Irregular fall and winter visitor. Oct. 20.

MASS.— Irregular fall and winter visitor, sometimes common. (Oct. 12) Oct. 28–April 15 (May 20).

STRIGIDAE.

R. I.— Uncommon and irregular winter visitor. Nov. 3–Feb. 15.
CONN.— Uncommon and irregular winter visitor. Oct. 17.

217. SURNIA ULULA CAPAROCH (Müller) Stejneger.

American hawk owl; Day owl.

Strix caparoch Müll., Linné' Vollstand. natursyst., suppl., 1776, p. 69. "EUROPA."

Surnia funerea Gmel. Audubon, Birds of Amer., 1840, vol. 1, p. 112, pl. 27. Egg, Bendire, 1892, vol. 1, pl. 12, fig. 18.

Open country or woods; nests in trees or rarely in cliffs.

ME.— Rare fall and winter visitor. Oct. 24–Mar. 10 (April 16, 1906, Van Buren).

N. H.— Rare fall and winter visitor. Oct. 25–(April 20, Connecticut Lakes).

VT.— Rare fall and winter visitor; (? summer in north). Nov. 2–winter.

MASS.— Rare fall and winter visitor. Nov. 16–Mar. 25.

R. I.— Rare winter visitor: West Greenwich, Nov. 16, 1906; (also one doubtful record).

CONN.— Rare winter visitor: New Haven, Nov. 1869.

218. SPEOTYTO CUNICULARIA HYPOGAEA (Bonaparte) Coues.

Burrowing owl.

A. K. Fisher, Hawks and owls of U. S., 1893, p. 195, pl. 25. Egg, Bendire, 1892, vol. 1, pl. 12, fig. 14.

Strix hypogaea Bonap., Amer. ornith., 1825, vol. 1, p. 72, pl. 7, fig. 2. "WESTERN AMERICAN TERRITORY."

Open prairie country; nests in old burrows of prairie-dogs and spermophiles.

MASS.— Accidental visitor: Newburyport, May 5, 1875.

CUCULIDAE.

219. Coccyzus americanus (Linné) Bonaparte.

Yellow-billed cuckoo; Chow-chow; Egg sucker; Milk sourer; Rain crow; Rain dove.

Audubon, Birds of Amer., 1842, vol. 4, p. 293, pl. 275. Egg, Bendire, 1895, vol. 2, pl. 5, fig. 1.

Cuculus americanus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 111. "Carolina."

Thickets, shade trees, and open woods; nests in low trees or bushes.

Me.— Rare summer resident in southern counties. May 18–Aug.

N. H.— Rare summer resident of coast and southern valleys. May–Sept.

Vt.— Rare summer resident at lower elevations. May–summer. Eggs, June 4–July 10.

Mass.— Uncommon summer resident, mainly of south and east parts. (May 4) May 9–Sept. 26 (Oct. 6; Nov.). Eggs, May 20–June 30.

R. I.— Summer resident, sometimes common. May 9–Sept. 25 (Oct. 23). Eggs, May 24–30.

Conn.— Common summer resident. May 7–Sept. (Oct. 11). Eggs, June 1–July 24 (Aug. 4, 18, 26, Sept. 23).

220. Coccyzus erythrophthalmus (Wilson) Bonaparte.

Black-billed cuckoo; Chow-chow; Egg sucker; Milk sourer; Rain crow; Rain dove.

Audubon, Birds of Amer., 1842, vol. 4, p. 300, pl. 276. Egg, Bendire, 1895, vol. 2, pl. 5, figs. 3, 4.

Cuculus erythropthalma Wils., Amer. ornith., 1811, vol. 4, p. 16, pl. 28. "Georgia."

Thickets, shade trees, and open woods; nests in low trees or bushes.

COCCYGES. CUCULI.

CUCULIDAE.

Me.— Common summer resident. May 11–Sept. 14. Eggs, June 17.

N. H.— Common summer resident at lower elevations. May 12–Sept. 22 (Oct. 5).

Vt.— Common summer resident. Eggs, (Aug. 13).

Mass.— Common summer resident. May 4–Sept. 27 (Oct. 21). Eggs, May 20–June 17.

R. I.— Common summer resident. May 11–Sept. 16. Eggs, May 27–June 1.

Conn.— Common summer resident. May 15–Sept. 28 (Nov. 28, 1888, Stratford). Eggs, June 7–July 24 (Aug. 26).

ALCYONES.

ALCEDINIDAE.

221. Ceryle alcyon (Linné) Bonaparte.

Belted kingfisher; Kingfisher; Lazy-bird.

Alcedo alcyon Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 115. "America." Audubon, Birds of Amer., 1842, vol. 4, p. 205, pl. 255. Egg, Bendire, 1895, vol. 2, pl. 1, fig. 3.

Vicinity of bodies of water; nests in burrows excavated in banks.

Me.— Common summer resident. April 12–Sept. (Dec. 27). Eggs, June 1.

N. H.— Common summer resident; rare winter resident near open streams. Mar.–Nov. 24 (winter). Eggs, May 20.

Vt.— Common summer resident; rare winter resident. Mar. 27–Oct. (winter, Brattleboro).

Mass.— Common summer resident, and rare winter resident. Mar. 15–Dec. 5 (winter). Eggs, May 15–June 6.

R. I.— Common summer and uncommon winter resident. Mar.–Oct. 20; winter. Eggs, May 15–20.

Conn.— Common summer and uncommon winter resident. Mar. 29–Nov. 13; winter. Eggs, May 14.

PICI.

PICIDAE.

222. DRYOBATES VILLOSUS (Linné) Cabanis.

Hairy woodpecker; Big guinea woodpecker; Big sapsucker.

Picus villosus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 175. "IN AMERICA SEPTENTRIONALI." Audubon, Birds of Amer., 1842, vol. 4, p. 244, pl. 262. Egg, Capen, 1886, pl. 4, fig. 9.

Forests; nests in holes dug in dead or live trees.

ME.— Common resident. Eggs, May 28.

N. H.— Common resident up to 4500 ft.

VT.— Uncommon resident. Eggs, June 8.

MASS.— Uncommon winter visitor and less common summer resident, especially in western part. Eggs, April 22–May 30.

R. I.— Uncommon fall and winter visitor and rare summer resident (Chepachet, Cranston). Sept. 1.–Mar.; summer. Eggs, May 12–28.

CONN.— Uncommon fall and winter visitor, rare summer resident. Eggs, May 2–9.

223. DRYOBATES PUBESCENS MEDIANUS (Swainson) Brewster.

Downy woodpecker; Little guinea woodpecker; Little sapsucker.

Picus (Dendrocopus) medianus Swains., in Swains. and Richardson, Fauna Boreali-Amer., 1831, vol. 2, p. 308. "MIDDLE PARTS OF NORTH AMERICA. . . . NEW JERSEY."

Dryobates pubescens (Linné). Chapman, Handb. birds east. No. Amer., 1895, p. 230; Bird-life, 1898, pl. 24. Egg, Capen, 1886, pl. 14, fig. 10.

Open woods, shade and orchard trees; nests in holes excavated in dead trees.

ME.— Common resident. Eggs, May 27.

N. H.— Common resident, mainly below 3000 ft.

VT.— Common resident.

PICI.

PICIDAE.

MASS.— Common resident, most conspicuous in fall and winter. Eggs, May 20–June 21.

R. I.— Uncommon summer and common winter resident. Eggs, May 12–25.

CONN.— Common resident.

224. PICOIDES ARCTICUS (Swainson) Gray.

Arctic three-toed woodpecker; Black-backed three-toed woodpecker.

Picus (Apternus) arcticus Swains., in Swains. and Richardson, Fauna Boreali-Amer., 1831, vol. 2, p. 313, pl. 57. "NEAR THE SOURCES OF THE ATHABASCA RIVER, LAT. 57°." Egg, Capen, 1886, pl. 14, fig. 11.

Evergreen forests; nests in holes excavated in dead trees.

ME.— Uncommon winter visitor, and in northern and western counties, rare resident. Eggs, May 23.

N. H.— Rare resident above 3000 ft. in White Mts., south to Mt. Passaconaway and possibly on Mt. Monadnock (Keene, breeding), elsewhere rare visitor.

VT.— Rare resident in northern part and on higher peaks (nests at Burlington, Lunenburg, Sherburne, Pico Peak, etc.); occasional visitor to lower country in fall and winter. Eggs, May 29, June 1.

MASS.— Occasional fall and winter visitor. (Late Sept.) Oct. 16–April 27 (July, 1888, Boxford; Aug. 11, 1883, Dorchester).

CONN.— Rare winter visitor: East Windsor Hill; Simsbury, 1860.

225. PICOIDES AMERICANUS Brehm.

American three-toed woodpecker; Banded-backed woodpecker; Ladder-backed woodpecker.

Picoides americana Brehm, Handb. d. naturgesch. aller vögel Deutschl., 1831, p. 195. "AMERIKA."

PICI.

PICIDAE.

Picus hirsutus Vieill. Audubon, Birds of Amer., 1842, vol. 4, p. 268, pl. 269. Egg, Capen, 1886, pl. 14, fig. 12.

Evergreen forests; nests in holes excavated in dead trees.

ME.— Rare winter visitor, and in north and west, a rare resident. Eggs, June 2.

N. H.— Rare resident above 3000 ft., south to Sandwich range; elsewhere rare winter visitor. Eggs, June 4.

VT.— Rare winter visitor and local resident (Pico Peak above 2500 ft.).

MASS.— Rare winter visitor. April 28.

226. SPHYRAPICUS VARIUS (Linné) Baird.

Yellow-bellied sapsucker; Red-throated sapsucker; Squealing or Whining woodpecker.

Picus varius Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 176. "IN AMERICA SEPTENTRIONALI." DeKay, Zool. New York, 1844, vol. 2, p. 188, pl. 18, fig. 38; Bonaparte, Amer. ornith., 1825, vol. 1, pl. 8, figs. 1, 2. Egg, Capen, 1886, pl. 14, fig. 13.

Woods, orchards, and shade trees; nests in holes excavated in dead trees.

ME.— Common migrant and in northern counties a common summer resident. (Mar. 8 and 31) April 10 — Oct. 26 (Nov. 15). Eggs, May 15–June 8.

N. H.— Common migrant and in northern half a common summer resident up to 3000 ft.; accidental winter resident (Charlestown, 1898–99). April 14–Oct. 20 (winter).

VT.— Common migrant, less common summer resident.

MASS.— Uncommon migrant and accidental winter resident; in Berkshire Co. a rare summer resident. April 4–May 10; summer; Sept. 10–Nov. 1 (winter).

R. I.— Uncommon migrant. (Mar. 23)–April; Sept. 26–Oct. 11.

CONN.— Rare spring and uncommon fall migrant. Mar. 30–May 3; Sept. 28–Oct. (Dec. 21, 1908, New Haven).

PICI.

PICIDAE.

227. PHLOEOTOMUS PILEATUS ABIETICOLA (Bangs) A. O. U. comm.

Northern pileated woodpecker; Black woodpecker; Cock of the woods; Laughing woodpecker; Logcock; Stump-breaker; Woodchuck; Woodcock; Woodhen.

Ceophloeus pileatus abieticola Bangs, Auk, 1898, vol. 15, p. 176. "GREENVILLE, MAINE."

Picus pileatus Linné. DeKay, Zool. New York, 1844, vol. 2, pl. 18, fig. 35. Egg, Capen, 1886, pl. 14, fig. 6.

Heavy timber; nests in holes excavated in dead trees.

ME.— Uncommon resident in wilder portions. Eggs, May 11–May 28.

N. H.— Rare resident mainly in northern and western parts.

VT.— Rare resident, breeds south to Taftsville, Townshend, Wells River. Eggs, May 22.

MASS.— Rare resident in western counties; elsewhere casual. Eggs, May 17.

CONN.— Rare or now an accidental visitor (Granby, Nov. 1, 1890, 1894–95; Litchfield, June 20, 1908).

228. MELANERPES ERYTHROCEPHALUS (Linné) Swainson.

Red-headed woodpecker.

Picus erythrocephalus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 113. "AMERICA." Audubon, Birds of Amer., 1842, vol. 4, p. 274, pl. 271. Egg, Capen, 1886, pl. 14, fig. 14.

Open woodlands and shade trees; nests in holes excavated in dead trees.

ME.— Occasional visitor, mainly in spring and fall; said to have bred in York Co.

N. H.— Rare and irregular visitor in southern half. May 25–Sept.

VT.— Irregular visitor at all seasons, sometimes common; resident and bred in western part about 1880 (Orwell, Rutland).

PICI.

PICIDAE.

MASS.— Rare irregular visitor at all seasons, sometimes breeding (Agawam, Brookline, Newton). Eggs, May–June 17.

R. I.— Irregular visitor, sometimes common in fall; rare summer resident (Providence Co.; Warwick, young in nest, July 28, 1882). Eggs, May 28.

CONN.— Rare summer resident and irregular visitor at all seasons; formerly more common.

229. CENTURUS CAROLINUS (Linné) Bonaparte.

Red-bellied woodpecker.

Picus carolinus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 113. "IN AMERICA SEPTENTRIONALI." DeKay, Zool. New York, 1844, vol. 2, p. 189, pl. 17, fig. 37.

Wooded bottomlands; nests in holes excavated in dead trees.

MASS.— Accidental visitor (five records). May–Nov.

R. I.— Accidental visitor: near Providence, two specimens.

CONN.— Accidental visitor: Hartford; Stratford, Oct. 16, 1842. Suffield, July 30, 1874.

230. COLAPTES AURATUS LUTEUS Bangs.

Northern flicker; Anteater; Clape; Golden-winged woodpecker; Grasshopper woodpecker (Vt.); **Harry wicket; High-hole; Pigeon woodpecker; Wake-up; Yaffle; Yellow jay; Yellow-hammer; Yellow-wing** (Mass.); **Yucker.**

Bangs, Auk, 1898, vol. 15, p. 177. "WATERTOWN, MASS."

Colaptes auratus (Linné). Chapman, Bird-life, 1898, p. 116, pl. 26. Egg, Capen, 1886, pl. 14, fig. 15.

Open woods, orchards, fields, clearings; nests in holes excavated in dead trees, or in cavities.

ME.— Common summer, and near coast, a rare winter resident. Mar. 11–Nov. 13 (winter). Eggs, May 27–June 14.

PICI.

PICIDAE.

N. H.— Common migrant and summer resident below 2000 ft.; rare winter resident near coast. Eggs, May 24.

Vt.— Common migrant and summer resident. April 18–fall.

Mass.— Common migrant and summer resident; less common winter resident, mainly near coast. Eggs, May 6–June 20.

R. I.— Common migrant, less common summer and winter resident. Mar. 18–Nov.; winter. Eggs, April 29–May 19.

Conn.— Common migrant and summer resident; less common winter resident. Mar. 28–Nov. 28; winter. Eggs, May 18–June 9.

MACROCHIRES. CAPRIMULGI.

CAPRIMULGIDAE.

231. Antrostomus carolinensis (Gmelin) Gould.

Chuck-will's-widow.

Caprimulgus carolinensis Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 1028. "Virginia & Carolina." Audubon, Birds of Amer., 1840, vol. 1, p. 151, pl. 41. Egg, Bendire, 1895, vol. 2, pl. 1, figs. 8, 9.

Woods and thickets, active at night; nests on the ground.

Mass.— Accidental visitor: Revere (Oct. or Dec.), 1884.

Conn.— Accidental visitor: New Haven, May 19, 1889 (after southerly storm).

232. Antrostomus vociferus (Wilson) Bonaparte.

Whip-poor-will.

Caprimulgus vociferus Wils., Amer. ornith., 1812, vol. 5, p. 71, pl. 41, fig. 1–3. "Kentucky." Audubon, Birds of Amer., 1840, vol. 1, p. 155, pl. 42. Egg, Bendire, 1895, vol. 2, pl. 1, figs. 10, 11.

Woods and thickets, active at night; nests on the ground.

Me.— Common summer resident. April 28–Sept. 21.

CAPRIMULGIDAE.

N. H.— Common summer resident north to White Mt. valleys. May 6–Sept. 26.

Vt. – Common summer resident at lower elevations. May 5–Sept. 16. Eggs, May 24–31.

Mass. Common summer resident. (April 22) April 30–Sept. 25. Eggs, May 18–June 9.

R. I.— Common summer resident. April 25–fall. Eggs, May 25–June 8.

Conn.— Common summer resident. Late April–Sept. (Nov. 1, 1880, Noank). Eggs, May 20–June 5 (July 4).

233. Chordeiles virginianus (Gmelin) Swainson.

Nighthawk; Bull-bat; Mosquito hawk; Pork-and-beans.

Audubon, Birds of Amer., 1840, vol. 1, p. 159, pl. 43. Egg, Bendire, 1895, vol. 2, pl. 2, fig. 1–3.

Caprimulgus virginianus Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 1028. "in America septentrionali, praesertim Virginia."

Woods, thickets, or in cities and open country; nests on the ground or on flat gravelled roofs; largely nocturnal.

Me. — Common migrant and summer resident. (April 11, East Hebron; April 22) May 3–Sept. 14. Eggs, June 26–July 4.

N. H.— Common migrant and at lower altitudes a less common summer resident. (April 17) May 9–Sept. 15. Eggs, June 10.

Vt.— Common migrant and summer resident. May–Sept.

Mass.— Common migrant, less common summer resident. (April 23) May 9–Oct. 6. Eggs, June 5–15.

R. I.— Common migrant (mainly inland), and summer resident. (April 7) May–Sept. (Oct.) Eggs, June 5–8.

Conn.— Common migrant and less common summer resident. May 11–Oct. Eggs, June 3–23.

MACROCHIRES. CYPSELI.

MICROPODIDAE.

234. CHAETURA PELAGICA (Linné) Stephens.

Chimney swift; Chimney-bird; Chimney swallow.

Chapman, Handb. birds east. No. Amer., 1895, p. 239; Bird-life, 1898, pl. 28. Egg, Bendire, 1895, vol. 2, pl. 1, fig. 25.

Hirundo pelagica Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 192. "AMERICA."

Lives largely on the wing; rests and nests in hollow trees, chimneys, or barns.

ME.— Common summer resident. April 26–Sept. 11. Eggs, June 15–July 10.

N. H.— Common summer resident. April 27–Sept. 7 (Oct. 1).

VT.— Common summer resident. May 1–Sept.

MASS.— Common summer resident. (April 18) April 25–Sept. 25 (Oct. 12, 1907, Sharon). Eggs, June 10–30.

R. I.— Common summer resident. April 26–Sept. 17. Eggs, June 10–July 1.

CONN.— Common summer resident. (April 14) April 21–Sept. 27. Eggs, June 24.

TROCHILI.

TROCHILIDAE.

235. TROCHILUS COLUBRIS Linné.

Ruby-throated hummingbird.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 120. "IN AMERICA, IMPRIMIS SEPTENTRIONALI." DeKay, Zool. New York, 1844, vol. 21, p. 46, pl. 40, fig. 87. Egg, Bendire, 1895, vol. 2, pl. 1, fig. 27.

Open country, haunting flower growths; nests in trees.

ME.— Common summer resident. May 6–Sept. 26 (Oct. 1).

N. H.— Common migrant, less common summer resident at lower elevations. May 13–Sept. 25. Eggs, June 29–July 15.

VT.— Uncommon summer resident. May 15–Sept.

MACROCHIRES. TROCHILI.

TROCHILIDAE.

MASS.— Common migrant, less common summer resident. (May 1) May 6–Sept. 23 (Oct. 15). Eggs, May 24–June 15.

R. I.— Common summer resident. (May 3) May 6–Sept. 23. Eggs, May 20–July 4.

CONN.— Common summer resident. May 5–Oct. 5 (Oct. 16). Eggs, May 27–June 3 (Aug. 4).

PASSERES. CLAMATORES.

TYRANNIDAE.

236. MUSCIVORA FORFICATA (Gmelin) Oberholser.

Scissor-tailed flycatcher.

Muscicapa forficata Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 931. "IN NOVA HISPANIA." Bonaparte, Amer. ornith., 1825, vol. 1, p. 15, pl. 2, fig. 1. Egg, Bendire, 1895, vol. 2, pl. 1, figs. 12, 13.

Open tree-grown country; nests in trees.

VT.— Accidental visitor: St. Johnsbury, ? 1884.

CONN.— Accidental visitor: Wauregan, about April 27, 1876.

237. TYRANNUS TYRANNUS (Linné) Jordan.

Kingbird.

Chapman, Handb. birds east. No. Amer., 1895, p. 243; Bird-life, 1898, pl. 30. Egg, Bendire, 1895, vol. 2, pl. 1, figs. 14, 15.

Lanius tyrannus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 94. "IN AMERICA SEPTENTRIONALI."

Orchards and tree growth along streams and lakes; nests in trees.

ME.— Common summer resident. May 3–Sept. 12 (Sept. 25). Eggs, June 15.

N. H.— Common summer resident north to the White Mt. valleys. May 3–Sept. 11.

VT.— Common summer resident. May 5–Sept.

MASS.— Common summer resident. (April 27) May 3–Sept. 19 (Sept. 26). Eggs, May 30–July 4 (July 17).

TYRANNIDAE.

R. I.— Common summer resident. May 1–Sept. 12 (Sept. 28). Eggs, May 31–June 17.

CONN.— Common summer resident. (April 13, 26) May 1–Sept. 15.

238. TYRANNUS DOMINICENSIS (Gmelin) Richardson.

Gray kingbird.

Lanius tyrannus β. dominicensis Gmel., Syst. nat., 1788, vol. 1, pt. 1, p. 302. "INSULA S. DOMINICI ET JAMAICA."

Muscicapa dominicensis Brisson. Audubon, Birds of Amer., 1840, vol. 1, p. 201, pl. 55. Egg, Bendire, 1895, vol. 2, pl. 2, figs. 3, 4.

Tree growth along seacoasts and large streams; nests in low trees.

MASS.— Accidental visitor: Lynn, Oct. 23, 1869.

239. TYRANNUS VERTICALIS Say.

Arkansas kingbird.

Say, Long's Exped. to Rocky Mts., 1823, vol. 2, p. 60. On the "ARKANSA" River.

Muscicapa verticalis (Say). Bonaparte, Amer. ornith., 1825, vol. 1, p. 18, pl. 2, fig. 2. Egg, Bendire, 1895, vol. 2, pl. 1, figs. 16, 17.

Open country, usually near water; nests in trees.

ME.— Accidental visitor: Eliot, Oct., ? 1864.

240. MYIARCHUS CRINITUS (Linné) Lichtenstein.

Crested flycatcher; Great crested flycatcher.

Muscicapa crinita Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 325. "IN AMERICA SEPTENTRIONALI." Audubon, Birds of Amer., 1840, vol. 1, p. 209, pl. 57. Egg, Bendire, 1895, vol. 2, pl. 2, figs. 8, 9.

Open woods; nests in hollow limbs.

ME.—Uncommon summer resident, mainly in southern part. May 8–Sept. 20. Eggs, June 11–25.

N. H.—Uncommon summer resident north to White Mt. valleys. May 13–Sept. Eggs, early June–July 7.

VT.—Common summer resident. May 8–Sept.

MASS.—Uncommon summer resident. (May 1) May 9–Sept. 26 (Oct. 15). Eggs, June 13–27.

R. I.—Uncommon summer resident. May 2–Aug. 23. Eggs, June 5, 6.

CONN.—Common summer resident. May 4–Sept. 17. Eggs, May 27–June 13.

241. SAYORNIS PHOEBE (Latham) Stejneger.

Phoebe; Barn, Bridge, or House pewee; Bridge-bird; Pewit.

Ridgway, Bull. 50, U. S. nat. mus., 1907, pt. 4, p. 594. Egg, Bendire, 1895, vol. 2, pl. 1, fig. 28.

Muscicapa phoebe Lath., Index ornith., 1790, vol. 2, p. 489. "IN AMERICA SEPTENTRIONALI, NOVEBORACO."

Muscicapa fusca Bonap. Audubon, Ornith. biogr., 1834, vol. 2, p. 122, pl. 120.

Borders of streams and ponds, or about buildings; nests under bridges or culverts, or on projections of buildings or ledges.

ME.—Common summer resident. Mar. 22–Oct. 19 (Nov. 24, 1884, Brewer). Eggs, May 7–June 24.

N. H.—Common summer resident at lower elevations. Mar. 22–Oct. 17. Eggs, June 7–July.

VT.—Common summer resident. Mar. 22–fall.

MASS.—Common summer resident. (Feb. 20) Mar. 12–Oct. 26 (Nov. 15). Eggs, April 27–May 10; June 13–July 3 (2d brood); Aug. 15 (? 3d brood).

R. I.—Common summer resident. Mar. 8–Oct. 27. Eggs, May 7–12.

TYRANNIDAE.

CONN.— Common summer and rare or accidental winter resident (New Haven, Dec. 21, 1906–Mar. 10, 1907; Dec. 25, 1907). (Feb. 25) Mar. 11–Oct. 30 (winter). Eggs, May 12–June 11; July 10.

242. SAYORNIS SAYA (Bonaparte) Baird.

Say's phoebe.

Muscicapa saya Bonap., Amer. ornith., 1825, vol. 1, p. 20, pl. 2, fig. 3. "NEAR THE ARKANSAW RIVER, ABOUT TWENTY MILES FROM THE ROCKY MOUNTAINS." Egg, Bendire, 1895, vol. 2, pl. 1, fig. 29.

Open country; nests under bridges, projections of buildings and ledges.

MASS.— Accidental visitor: North Truro, Sept. 30, 1889.

243. NUTTALLORNIS BOREALIS (Swainson) Oberholser.

Olive-sided flycatcher; Three-deer.

Tyrannus borealis Swains., in Swains. and Richardson, Fauna Boreali-Amer., 1831, vol. 2, p. 141, pl. 35. "CUMBERLAND HOUSE, LAT. 54.°" Egg, Bendire, 1895, vol. 2, pl. 2, figs. 15, 16.

Mixed and coniferous woods; nests in trees.

ME.— Uncommon summer resident, south to Cape Elizabeth. May 7–Sept. 15. Eggs, June 17–23.

N. H.— Uncommon summer resident. May 18–Sept. 14.

VT.— Uncommon summer resident, mainly of mountainous regions. May 10–fall. Eggs, June 10–16.

MASS.— Uncommon summer resident in western part, rare and local in the east. May 10–Sept. 10. Eggs, June 16–July.

R. I.— Rare migrant. May 14–24; ? fall.

CONN.— Rare migrant; may breed in northwestern part. Spring; Aug. 5–Oct. 18.

TYRANNIDAE.

244. MYIOCHANES VIRENS (Linné) Ridgway.

Wood pewee; Dead-limb bird.

Muscicapa virens Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 327. "IN CAROLINA AD RIPAS." Audubon, Birds of Amer., 1840, vol. 1, pl. 64.

Contopus virens (Linné). Chapman, Handb. birds east. No. Amer., 1895, p. 247. Egg, Bendire, 1895, vol. 2, pl. 2, figs. 18, 19.

Woods and shade trees; nests in trees.

ME.— Common summer resident. May 12–Sept. 27. Eggs, June 20.

N. H.— Common summer resident at lower elevations. May 17–Sept. 17. Eggs, June 9–16.

VT.— Common summer resident. May 19–Sept.

MASS.— Common summer resident. (May 10) May 12–Sept. 26 (Oct. 1). Eggs, June 10–July 10.

R. I.— Common summer resident. May 12–Sept. 24. Eggs, June 15–30.

CONN.— Common summer resident. May 10–Sept.

245. EMPIDONAX FLAVIVENTRIS (Baird) Baird.

Yellow-bellied flycatcher.

Tyrannula flaviventris Baird, Proc. acad. nat. sci. Phila., 1843, vol. 1, p. 283. "NEAR CARLISLE, PENNSYLVANIA."

Muscicapa flaviventris (Baird). Audubon, Birds of Amer., 1844, vol. 7, p. 341, pl. 490. Egg, Bendire, 1895, vol. 2, pl. 2, fig. 23.

Damp evergreen thickets; nests among tree roots.

ME.— Uncommon summer resident in northern part. May 21–June 1; summer–Sept. 8. Eggs, June 14–27.

N. H.— Common summer resident above 3000 ft. from White Mts. north; local south to Dublin. May 18–Aug. (? Sept.). Eggs, June 14.

TYRANNIDAE.

VT.— Uncommon local summer resident at lower elevations south to Londonderry. May 16–summer.

MASS.— Rare migrant and possible summer resident on Mt. Greylock (June 15, 1907). (May 10) May 15–June 10 (June 15); Aug. 25–Sept. 10 (Nov. 29, 1876, Reading; Dec. 1, 1876, Newton).

R. I.— Rare migrant. May 21; (? July 27) Aug. 7.

CONN.— Uncommon migrant. May 20–early June; Sept. 17.

246. EMPIDONAX VIRESCENS (Vieillot) Brewster.

Green-crested flycatcher; Acadian flycatcher.

Chapman, Handb. birds east. No. Amer., 1895, p. 249. Egg, Bendire, 1895, vol. 2, pl. 2, figs. 26, 27.

Platyrhynchos virescens Vieill., Nouv. dict. d'hist. nat., 1818, vol. 27, p. 22. No locality, based on Wilson.

Muscicapa acadica Gmel. Audubon, Birds of Amer., 1840, vol. 1, p. 221, pl. 62.

Deep woods near water; nests, pensile, in low trees.

VT.— Rare summer resident: Bennington (nest with young, July 14, 1904); various doubtful records.

MASS.— Very rare summer resident (Hyde Park, 1888; *nec* Springfield).

CONN.— Rare local summer resident (Greenwich, Stamford, Suffield). Eggs, June 2–22.

247. EMPIDONAX TRAILLII ALNORUM Brewster.

Alder flycatcher; Traill's flycatcher.

Brewst., Auk, 1895, vol. 12, p. 161. "UPTON, MAINE." Bird-lore, 1908, vol. 10, plate in no. 3, figs. 2, 3. Egg, Bendire, 1895, vol. 2, pl. 2, fig. 30.

Alder swamps; nests in low bushes.

ME.— Common local summer resident. (May 15) May 18–Sept. 5. Eggs, June 21.

N. H.— Local summer resident below 2000 ft.; uncommon south of White Mts. (May 11, 16) May 20–Aug. 31. Eggs, June 22–July 8.

Vt.— Uncommon local summer resident. (May 17) May 21–Sept. Eggs, June 13–July 30.

Mass.— Local summer resident, rare in eastern part (Essex and Middlesex Cos.), commoner in western. May 16–June 6; summer–Aug. 24. Eggs, June 15–July 3.

Conn.— Local summer resident (Norfolk). (May 6).

248. Empidonax minimus (Baird) Baird.

Least flycatcher; Chebec.

Ridgway, Bull. 50, U. S. nat. mus., 1907, pt. 4, p. 561. Bird-lore, 1908, vol. 10, plate in no. 3, fig. 1. Egg, Bendire, 1895, vol. 2, pl. 2, fig. 31.

Tyrannula minima Baird, Proc. acad. nat. sci. Phila., 1843, p. 284. "Near Carlisle, Pennsylvania."

Orchards, shade trees, and borders of woods; nests in trees.

Me.— Common summer resident. (April 21) April 27–Aug. 31 (Sept. 5). Eggs, June 11.

N. H.— Common summer resident below 2000 ft. April 29–Sept. Eggs, May–June 10; July 10–late July (2d brood).

Vt.— Common summer resident of low country. April 29–Sept.

Mass.— Common summer resident. (April 22) April 28–Sept. 21 (Oct. 2). Eggs, May 20–July 1 (2 broods).

R. I.— Common summer resident. (April 22) April 27–fall. Eggs, May 24–June 2.

Conn.— Common summer resident. April 26–Sept.

PASSERES. OSCINES.

ALAUDIDAE.

249. Otocoris alpestris (Linné) Bonaparte.

Horned lark; Shore lark.

Ridgway, Bull. 50, U. S. nat. mus., 1907, pt. 4, p. 303; Chapman, Bird-life, 1898, pl. 34. Egg, Seebohm, 1896, p. 259, pl. 58, fig. 15.

Alauda alpestris Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 166. "in America septentrionali."

Seashores and open fields; nests on the ground.

Me., N. H.— Common migrant and winter resident, chiefly coastwise. (Sept. 25, Milo, Me.) Oct. 18–April (May 1–7, Monson, Me.).

Vt.— Common migrant. Feb.–Mar.; (Sept. 15)–Nov.

Mass.— Common migrant, less common winter resident, mainly coastwise. (Sept. 27) Oct. 17–April 19 (May 27).

R. I.— Common migrant and winter resident. (Sept. 25)–April 15.

Conn.— Common migrant and winter resident, mainly coastwise. Nov. 18–Mar. 26.

250. Otocoris alpestris praticola Henshaw.

Prairie horned lark.

Hensh., Auk, 1884, vol. 1, p. 264. "Richland Co., Ill.," but type locality "Denver, Colorado" (see Bull. 50, U. S. nat. mus., 1907, pt. 4, p. 311, foot note). Egg, Bendire, 1895, vol. 2, pl. 5, fig. 25.

Eremophila cornuta (Wils.). Baird, Brewer, and Ridgway, Hist. No. Amer. birds, 1874, vol. 2, pl. 32, fig. 2 (head of young).

Open fields; nests on the ground.

Me.— Uncommon migrant and summer resident; casual in winter. Feb. 10–Mar. 30; summer–Nov. 26 (Jan. 24, 1899, Pittsfield). Eggs, May 12–31.

ALAUDIDAE.

N. H.—Uncommon migrant, and in White Mt. valleys (? and summit of Mt. Washington, 1905) a rare summer resident. Feb. 28–Aug. Eggs and young, May 21, June 22.

VT.—Uncommon migrant and rare summer resident (at Burlington, Cornwall, Mt. Mansfield, Rygate, St. Albans, Stowe). Feb.–fall. Eggs, Mar.–April 19.

MASS.—Rare migrant and summer resident, occasional winter resident (Longmeadow). Feb. 19–Mar. 22; summer; Oct. 26–Dec. 15 (winter). Eggs, July 10.

R. I.—Rare migrant: Pawtuxet, Nov. 25, 1889.

CONN.—Uncommon migrant and summer resident (Danbury, 1908, Litchfield, 1905, Washington, 1906); "occasional in winter." Eggs, Mar. 25.

251. OTOCORIS ALPESTRIS HOYTI Bishop.

Hoyt's horned lark.

Bishop, Auk, 1896, vol. 13, p. 130. "CANDO, TOWNER COUNTY, NORTH DAKOTA."

Open country and coasts; nests on the ground.

CONN.—Rare migrant and (?) winter resident: Guilford, Mar. 7, 1903; West Haven, Jan. 24, 1905 (Bishop).

CORVIDAE.

252. CYANOCITTA CRISTATA (Linné) Strickland.

Blue jay; Corn-bird.

Corvus cristatus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 106. "IN AMERICA SEPTENTRIONALI."

Garrulus cristatus Linné. Audubon, Birds of Amer., 1842, vol. 4, p. 110, pl. 231. Egg, Bendire, 1895, vol. 2, pl. 5, figs. 5, 6.

Woodlands; nests in trees.

ME.—Common migrant and resident. Eggs, May–June 4.

N. H.— Common migrant and summer resident; less common in winter south of the White Mts.

Vt.— Common migrant and resident. Eggs, May 11.

Mass.— Common migrant and resident. Eggs, April 28–June 15.

R. I.— Common resident. Eggs, May 2–22.

Conn.— Common resident. Eggs, May 5–June 13.

253. Perisoreus canadensis (Linné) Bonaparte.

Canada jay; Camp robber; Caribou-bird; Gray jay; Grease-bird; Meat-bird; Meat hawk; Moose-bird; Venison hawk; Whiskey-Jack; Whiskey-John; Wiss-ka-chon (Indian).

Corvus canadensis Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 158, "Canada."

Garrulus canadensis (Linné). Audubon, Birds of Amer., 1842, vol. 4, p. 121, pl. 234. Egg, Bendire, 1895, vol. 2, pl. 3, figs. 18, 19.

Fir and spruce forests; nests in trees.

Me.— Uncommon resident in northern part, south to Umbagog; elsewhere casual. Eggs, Mar. 16–28.

N. H.— Uncommon resident above 3000 ft. on Sandwich Range north; elsewhere casual.

Vt.— Uncommon resident in northern part and on high peaks (Mt. Mansfield); elsewhere casual (Somerset, Aug. 5, 1896).

Mass.— Accidental visitor: Lexington (*nec* Arlington Heights), Oct. 16, 1889; Newtonville, early summer, 1875; Salem, Oct. 25, 1878.

254. Corvus corax principalis Ridgway.

Northern raven.

Ridgw., Manual No. Amer. birds, 1887, p. 361. "Northern North America, from Greenland to Alaska, south to British Columbia, Canada, New Brunswick."

PASSERES. OSCINES.

CORVIDAE.

Corvus corax Linné. Audubon, Birds of Amer., 1843, vol. 4, p. 78, pl. 224. Egg, Bendire, 1895, vol. 2, pl. 4, fig. 3.

Vicinity of seacoasts and large rivers; nests on cliffs or rarely in trees.

Me.— Uncommon resident, mainly coastwise. Eggs, April 14.

N. H.— Accidental visitor (in winter?).

Vt.— Very rare visitor in northern part: Brandon, 1879.

Mass.— Accidental visitor, no recent records (Williamstown, before 1877).

Conn.— Accidental visitor: South Manchester, Sept. 18, 1890.

255. Corvus brachyrynchos C. L. Brehm.

American crow.

C. L. Brehm, Beitr. z. vögelkunde, 1822, vol. 2, p. 56. America.

Corvus americanus Audubon, Birds of Amer., 1842, vol. 4, p. 87, pl. 225. Egg, Bendire, 1895, vol. 2, pl. 4, fig. 8-12; pl. 5, figs. 21, 22.

Ubiquitous, though avoiding dense forests in the breeding season; nests in coniferous trees.

Me.— Common resident, in winter chiefly confined to coast. Eggs, April 20–May 25 (June 15).

N. H.— Common migrant and summer resident; in winter less common near coast and large rivers, rare elsewhere. Eggs, April 17.

Vt.— Common resident. Eggs, April 22.

Mass.— Common migrant and summer resident; common winter resident near coast, but less so inland. Eggs, April 15–June 13.

R. I.— Common migrant, summer and winter resident. Eggs, April 12–23.

Conn.— Common migrant, summer and winter resident. Eggs, April 12–May 9.

PASSERES. OSCINES

CORVIDAE.

256. CORVUS OSSIFRAGUS Wilson.

Fish crow.

Wils., Amer. ornith., 1812, vol. 5, p. 27, pl. 37, fig. 2. "NEW JERSEY....NEAR....PHILADELPHIA." Egg, Bendire, 1895, vol. 2, pl. 4, figs. 16, 17.

Seaboard and near large streams; nests in trees.

VT.— Doubtfully recorded.

MASS.— Rare visitor in southern part (Cambridge, Springfield, Wareham). Mar. 16–July 16.

CONN.— Rare summer resident (Bridgeport, Fairfield, near New London, New Haven, Stratford). Mar.–Nov. 10. Eggs, May 12–16.

STURNIDAE.

257. STURNUS VULGARIS Linné.

Starling.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 167. "EUROPA, AFRICA." Coues, Key to No. Amer. birds, ed. 5, 1903, vol. 1, p. 503, frontispiece. Egg, Seebohm, 1896, p. 230, pl. 54, fig. 13.

Open country and fields; nests in holes of buildings, trees, or cliffs.

ME.— Accidental visitor: Calais, May 4, 1889.

MASS.— Introduced at Springfield in 1897 but all disappeared; also straggler: Agawam, April, 1908; Pittsfield, Oct. 1, 1899.

CONN.— Local resident; apparently spreading from New York colony (New Haven, Dec. 3, 1900; Stamford, 1900; Norwalk, 1900; Weathersfield and Stonington, 1906; Bethel, 1907; New London, 1907). Eggs, April.

ICTERIDAE.

258. DOLICHONYX ORYZIVORUS (Linné) Swainson.

Bobolink; Butter-bird; May-bird; Meadow-wink; Reed-bird; Rice-bird; Skunk blackbird.

Chapman, Handb. birds east. No. Amer., 1895, p. 261; Auk, 1893, vol. 10, pl. 7. Egg, Bendire, 1895, vol. 2, pl. 6, figs. 1, 2.

Fringilla oryzivora Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 179. "IN CUBA, . . . FEMINAE SOLAE DESCENDUNT IN CAROLINAM."

Grassy meadows; nests on the ground.

ME.— Common migrant and local summer resident. May 1–Sept. 15. Eggs, June 6–15.

N. H.— Common migrant and summer resident at lower elevations. May 1–Sept. 23.

VT.— Common migrant and summer resident. Eggs, June 1.

MASS.— Common migrant and summer resident. (April 27) May 1–Sept. 29. Eggs, June 1–8.

R. I.— Common migrant and summer resident. May 10–Sept. 25. Eggs, May 30–June 3.

CONN.— Common migrant and summer resident. May 7–Sept. 5. Eggs, June 5.

259. MOLOTHRUS ATER (Boddaert) Gray.

Cowbird; Clodhopper; Cow blackbird; Cow bunting; Lazy-bird; Shiney-eye.

Oriolus ater Bodd., Tabl. d. planch. enlum. d'hist. nat., 1783, p. 37. Description in Buffon: "AMÉRIQUE."

Molothrus pecoris Gmel. Audubon, Birds of Amer., 1842, vol. 4, p. 16, pl. 212. Egg, Bendire, 1895, vol. 2, pl. 6, figs. 3–4.

Open country; lays eggs in nests of other small birds.

ME.— Common migrant and summer resident. Mar. 19–Oct. 13 (Dec. 27). Eggs, May 26–June 2.

N. H.— Uncommon summer resident in southern part; rare winter resident. Mar. 25–Oct. 2 (winter). Eggs, June 1.

ICTERIDAE.

VT.— Uncommon summer resident; very rare in winter. March 23–(Dec. 30).

MASS.— Common migrant and less common summer resident; occasional in winter. (Mar. 1) Mar. 11–Nov. 21; winter. Eggs, May 15–June 15 (July 1).

R. I.— Common migrant and summer resident; rare in winter. Mar. 14–Nov. 3 (Jan. 19). Eggs, May 16–June 2.

CONN.— Common migrant and summer resident; rare winter resident. Mar.–Nov. 4; winter. Eggs, May 9–June 14.

260. XANTHOCEPHALUS XANTHOCEPHALUS (Bonaparte) Jordan.

Yellow-headed blackbird.

Icterus xanthocephalus Bonap., Journ. acad. nat. sci. Phila., 1826, vol. 5, p. 223. Founded on Say: "ENGINEER CANTONMENT," Iowa.

Icterus icterocephalus (Linné). Bonap., Amer. ornith., 1825, vol. 1, p. 27, pl. 3, figs. 1, 2. Egg, Bendire, 1895, vol. 2, pl. 6, fig. 10–12.

Open prairies, marshes, and sloughs; nests among reeds.

ME.— Accidental visitor: Spruce Head, Metnic Id., Aug. 17, 1882.

MASS.— Accidental visitor: Eastham, two, Sept. 10, 1877; Monomoy Id., Sept. 8, 1897; Watertown, Oct. 15, 1869.

CONN.— Accidental visitor: Hartford, late July, 1884; New Haven, June, 1878; Stamford, July, 1888.

261. AGELAIUS PHOENICEUS (Linné) Vieillot.

Red-winged blackbird; Fire-wing; Marsh blackbird; Quonk-a-ree; Redwing; Swamp blackbird.

Audubon, Birds of Amer., 1842, vol. 4, p. 31, pl. 216. Egg, Bendire, 1895, vol. 2, pl. 6, fig. 13–15.

Oriolus phoeniceus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 161. "IN AMERICA SEPTENTRIONALI."

ICTERIDAE.

Open country, swamps, and marshes; nests in marsh grass or in bushes near water.

ME.— Common migrant and local summer resident. Mar. 13–Oct. 13 (Nov. 9). Eggs, June 1–July 1.

N. H.— Common migrant and local summer resident in valleys; accidental in winter (Warren). Mar. 3–Nov. 11 (winter).

VT.— Common migrant and summer resident. Mar. 2–Oct.

MASS.— Common migrant and summer resident, wintering rarely in south and east. (Feb. 26) Mar. 6–Oct. 20 (Nov. 28) (winter). Eggs, May 10–June 18.

R. I.— Common migrant and summer resident; casual in winter. Mar. 7–Oct. 19 (Dec. 15, Feb. 10–13). Eggs, May 12–June 16.

CONN.— Common migrant and summer resident; rare winter resident. Mar. 4–Oct. (winter). Eggs, May 30–June 6.

262. AGELAIUS PHOENICEUS FORTIS Ridgway.

Thick-billed redwing; Northern redwing.

Ridgway, Proc. Washington acad. sci., 1901, vol. 3, p. 153. "OMAHA, NEBRASKA."

Marshes and open country; nests among reeds or bushes.

CONN.— Rare fall migrant and winter resident: North Haven, Nov. 11, 1903, Dec. 25, 1901, Jan. 10, 1902 (Bishop).

263. STURNELLA MAGNA (Linné) Swainson.

Meadowlark; Marsh quail; Old-field lark.

Chapman, Handb. birds east. No. Amer., 1895, p. 265; Bird-life, 1898, pl. 39. Egg, Bendire, 1895, vol. 2, pl. 6, figs. 20, 21.

Alauda magna Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 167. "IN AMERICA, AFRICA."

Open fields and marshes; nests on the ground.

ME.— Rare migrant and local summer resident in southern

counties (Rangeley, April 21, 1897); rare in winter (Calais, Jan., 1899; Cape Elizabeth; Westbrook, Jan. 16, 18, 1904). Mar. 15–Nov. 19 (winter). Eggs, June–(July 22).

N. H.— Uncommon summer resident north to White Mt. valleys; rare winter resident on coast. Mar. 26–Oct. 12 (winter).

Vt.— Uncommon local summer resident; rare winter resident (L. Champlain, Middlebury, Pawlet, St. Albans, West Rutland). April 2–Nov. 15 (winter).

Mass.— Common summer resident, and near the coast an uncommon winter resident. Mar. 2–Nov.; winter. Eggs, May 11–June 28.

R. I.— Common summer resident, and in coastal marshes a common winter resident. Eggs, May 6–30.

Conn.— Common summer resident and less common winter resident coastwise. Eggs, June 6.

264. Icterus spurius (Linné) Bonaparte.

Orchard oriole.

Chapman, Handb. birds east. No. Amer., 1895, p. 266; Bird-life, 1898, pl. 36. Egg, Bendire, 1895, vol. 2, pl. 7, fig. 3–5.

Oriolus spurius Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 162. "in America septentrionali."

Shade trees and orchards; nests pensile in trees.

Me.— Accidental visitor: near Auburn; near Calais; Thomaston.

N. H.— Accidental visitor: Rollinsford.

Vt.— Very rare summer resident: Bennington; Brattleboro (with young); Middlebury, June 1, 1883.

Mass.— Rare local summer resident near coast (to Ipswich) and in western valleys. (May 1) May 8–Aug. 15. Eggs, May 28–June 25.

R. I.— Rare summer resident. May 14–July. Eggs, May 30–June 3.

ICTERIDAE.

CONN.— Common summer resident. May 4–Aug. Eggs, June 11–14 (Aug.).

265. ICTERUS GALBULA (Linné) Cones.

Baltimore oriole; Fire-bird; Golden oriole; Golden robin; Hang-bird; Hang-nest; Pea-bird.

Coracias galbula Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 108. "IN AMERICA."

Icterus baltimore (Linné). Audubon, Birds of Amer., 1842, vol. 4, p. 37, pl. 217. Egg, Bendire, 1895, vol. 2, pl. 7, fig. 6–9.

Orchards and shade trees; nest pensile in trees.

ME.— Common summer resident mainly in southern counties. May 9–Aug. 30 (Sept. 10).

N. H.— Common summer resident at lower elevations. May 6–Sept. 6 (Sept. 20).

VT.— Common summer resident; accidental in winter. May 10–Sept. (Dec. 4, 1884).

MASS.— Common summer resident; accidental in winter. (April 29) May 1–Sept. 9 (Nov. 15, 1885, E. Templeton; Nov. 18, 1888, Hyde Park). Eggs, May 24–July 4.

R. I.— Common summer resident. May 4–Sept. 1. Eggs, May 24–28.

CONN.— Common summer resident. May 1–early Sept. (Nov. 15, 1885, Portland). Eggs, June 6.

266. ICTERUS BULLOCKI (Swainson) Bonaparte.

Bullock's oriole or troupial.

Audubon, Birds of Amer., 1842, vol. 4, p. 43, pl. 218. Egg, Bendire, 1895, vol. 2, pl. 7, fig. 10–13.

Xanthornus bullockii Swains., Phil. mag., 1827, new ser., vol. 1, p. 436. "TABLE LAND....IN MEXICO."

Open country along streams; nests in trees.

ME.— Accidental visitor: Sorrento, about middle of Nov., 1889.

PASSERES. OSCINES.

ICTERIDAE.

267. EUPHAGUS CAROLINUS (Müller) Richmond.

Rusty blackbird; Rusty grackle.

Turdus carolinus Müll., Linné's Vollstand. natursyst., suppl., 1776, p. 140. "CAROLINA."

Quiscalus ferrugineus Linné. Audubon, Birds of Amer., 1842, vol. 4, p. 65, pl. 222. Egg, Bendire, 1895, vol. 2, pl. 7, fig. 14–16.

Swamps, marshes, and wet woods; nests in bushes and low trees.

ME.— Common migrant and in northern part a rare summer resident; accidental winter resident (Calais, 1899). Mar. 17–May; summer–Oct. 29 (winter).

N. H.— Common migrant and in northeast part, a rare summer resident (Megalloway R.). Mar. 8–May; summer; Sept. 9–Oct. 16.

VT.— Common migrant.

MASS.— Common migrant, accidental in winter (Brookline, Feb. 8, 1879; Concord, Jan. 22, 1905; Fresh Pond, Feb. 20, 1887; Jamaica Plain, winter 1907–8). Mar. 7–May 18 (May 30); Sept. 12–Nov. 27 (winter).

R. I.— Common migrant. Mar. 13–(? June 5); Sept.–Oct. 23.

CONN.— Common migrant, and rare winter resident. Mar.–April 19; Sept. 11–Nov. (Jan. 16, 29, Feb. 6, Milford; Dec. 25, 1908, New Haven).

268. QUISCALUS QUISCULA (Linné) Jordan.

Purple grackle; Crow blackbird.

Chapman, Handb. birds east. No. Amer., 1895, p. 269. Egg, Bendire, 1895, vol. 2, pl. 7, fig. 21–23.

Gracula quiscula Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 109. "IN AMERICA SEPTENTRIONALI."

Quiscalus versicolor Vieill. Audubon, Birds of Amer., 1842, vol. 4, p. 58, pl. 221.

ICTERIDAE.

Open country, groves, fields; nests in branches of coniferous trees, rarely in cavities or bushes.

N. H.— Accidental visitor: Tilton, Sept. 13, 1902.

Vt.— ? Summer resident (Perkins).

Mass.— Occasional typical birds breed in southernmost part and coastwise to Cambridge.

R. I.— Common summer resident in southern part, where most birds are typical; casual in winter. Mar. 6–Sept. 21 (Nov., Dec. 31). Eggs, April 25–June 6.

Conn.— Common summer and accidental winter resident. (Feb. 13) Mar. 1–Nov. (winter, East Haven).

269. Quiscalus quiscula aeneus (Ridgway) Stejneger.

Bronzed grackle; Crow blackbird.

Quiscalus aeneus Ridgw., Proc. acad. nat. sci. Phila., 1869, p. 134. "Mississippi region of U. S., east to Alleghany Mts." etc. Egg, Bendire, 1895, vol. 2, pl. 7, figs. 26, 27.

Open country, frequenting clumps of coniferous trees in breeding season; nests in branches of trees, or less often in cavities or bushes.

Me.— Common migrant and local summer resident. Mar. 19–Oct. 26. Eggs, May 27–June 21.

N. H.— Uncommon local summer resident; casual in winter. Mar. 12–Nov. (Dec. 24, 1907, Lancaster; Jan.).

Vt.— Uncommon local summer resident. April 11–Oct.

Mass.— Common migrant and local summer resident; rare in winter near coast (also Springfield). (Feb. 23, 1909, Boston) Mar. 10–Nov. 22 (winter). Eggs, May 2–June 1.

R. I.— Common migrant and in the northern part a less common summer resident, intergrading with *Q. quiscula*. Mar. 5–Nov. 1. Eggs, May 1–17.

Conn.— Common migrant. Mar. 5–April; Oct.–Nov.

PASSERES. OSCINES

FRINGILLIDAE.

270. Hesperiphona vespertina (W. Cooper) Bonaparte.

Evening grosbeak; Sugar-bird.

Fringilla vespertina Coop., Ann. lyc. nat. hist. New York, 1825, vol. 1, pt. 2, p. 220. "Sault Ste. Marie, near Lake Superior."

Coccothraustes vespertinus (Coop.). Chapman, Handb. birds east. No. Amer., 1895, p. 279; Audubon, Birds of Amer., 1841, vol. 3, p. 217, pl. 207.

Wooded districts; nests in trees.

Me.— Accidental visitor: several records in winter of 1889–90, Jan. 10–Mar. 18; Woodfords, Mar. 6, 1909.

N. H.— Accidental visitor: several records in winter of 1889–90, Jan. 6–May 1.

Vt.— Accidental visitor: Burlington, about Feb. 20, 1890; Rutland, Feb. 1909.

Mass.— Accidental visitor, first recorded in the 1890 flight (Jan. 1–April); also Wellfleet, one, Dec. 5, 1903; Beverly, flock of five, Mar. 23, 1904; So. Sudbury, Feb. 14, 1909; Townsend, Feb. 7, 1909; Williamstown, Jan. 26, 1909.

Conn.— Accidental visitor, first recorded in 1890 flight (East Hampton, Mar. 2; Gaylordsville, Mar. 10; Portland, Feb., Mar.); also Litchfield, ? Feb. 1, 1905, and Feb. 11, 1905; Bristol, Feb. 27, 1907.

271. Pinicola enucleator leucura (Müller) Richmond.

Pine grosbeak; Canadian pine grosbeak; Mope.

Loxia leucura Müller, Linné's Vollstand. natursyst., suppl., 1776, p. 150. "Canada."

Pinicola enucleator canadensis (Cab.). Ridgway, Bull. 50, U. S. nat. mus., 1901, pt. 1, p. 60.

Pyrrhula enucleator Temm. Audubon, Ornith. biogr., 1838, vol. 4, p. 414, pl. 358. Egg, Capen, 1886, pl. 7, fig. 13.

Spruce and fir forests; nests in trees.

ME.— Fall and winter visitor of varying abundance, and in northern forests a rare resident. Oct. 25–April 18; summer. Eggs, May 14–27.

N. H.— Fall and winter visitor of varying abundance, and uncommon summer resident above 3000 ft. in White Mts., north. Oct. 18–April 20; summer.

VT.— Winter visitor of varying abundance. Nov. 15–Mar. 24.

MASS.— Irregular winter visitor of varying abundance. Oct. 24–April 4 (April 24).

R. I.— Irregular winter visitor, sometimes common.

CONN.— Irregular winter visitor, sometimes common. Nov. 24–Mar. 31.

272. CARPODACUS PURPUREUS (Gmelin) Gray.

Purple finch; Red linnet.

Fringilla purpurea Gmelin, Syst. nat., 1788, vol. 1, pt. 2, p. 923. "CAROLINA."

Erythrospiza purpurea (Gmel.). Audubon, Birds of Amer., 1841, vol. 3, p. 170, pl. 196. Egg, Capen, 1886, pl. 7, figs. 14, 15.

Orchards, shade trees, and forests; nests in trees.

ME.— Common migrant and summer resident; rare winter resident (Rangeley Lakes, Jan. 15, 1884). Mar. 21–Oct. (winter). Eggs, June 4.

N. H.— Common summer resident below 3000 ft.; rare in winter. April 15–Dec. 22; winter.

VT.— Common summer resident.

MASS.— Common migrant, less common summer, and occasional winter resident. Mar. 8–Oct. 21; winter. Eggs, May 25–June 19 (Sept. 10).

R. I.— Common summer and uncommon winter resident. April 7–Oct.; winter. Eggs, May 19–June 8.

CONN.— Common summer and uncommon winter resident. Eggs, June; July 22 (2d brood).

273. LOXIA CURVIROSTRA MINOR (Brehm) Ridgway.

American crossbill; Red crossbill; Screwbill.

Ridgway, Bull. 50, U. S. nat. mus., 1901, pt. 1, p. 47.

Crucirostra minor Brehm, Naumannia, 1853, p. 193. "DER NORDAMERIKANISCHEN FREISTAATEN."

Loxia curvirostrata Linné. Audubon, Ornith. biogr., 1835, vol. 2, p. 559, pl. 197. Egg, Capen, 1886, pl. 8, figs. 1, 2.

Coniferous forests; nests in trees.

ME., N. H.— Resident, nomadic and irregularly abundant. Nests from Jan.–Oct.

VT.— Irregular at all seasons, but commonest in winter; breeds occasionally. Eggs, Feb., Mar.

MASS.— Irregularly common winter visitor, and occasional at all seasons; nests rarely (Framingham, 1884; Highland Light, April, 1889; Tyngsborough, Aug., 1875).

R. I.— Irregularly common winter visitor, and occasional at other seasons; not known to breed.

CONN.— Irregular winter visitor, sometimes common. Oct. 7–spring.

274. LOXIA LEUCOPTERA Gmelin.

White-winged crossbill.

Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 844. "IN SINU HUDSONIS & NOVEBORACO." Audubon, Birds of Amer., 1841, vol. 3 p. 190, pl. 201.

Coniferous forests; nests in trees.

ME.— Uncommon resident of northern part; elsewhere an irregular visitor. Nest, June.

N. H.— Uncommon resident above 3000 ft. in White Mts. and north; elsewhere an irregular visitor.

VT.— Irregularly common winter visitor, rare in summer in northern part and on higher peaks. Nested at Lunenburg, 1878.

MASS.— Irregular fall and winter visitor, sometimes common. Oct. 22–May 12 (May 25); (June 4, 1900, Lanesboro; June 13, 1866, Newtonville).

R. I.— Rare and irregular winter visitor. Jan. 14–Feb. 24.

CONN.— Rare and irregular winter visitor. Nov. 6–Mar. 7.

275. ACANTHIS HORNEMANNI EXILIPES (Coues) Stejneger.

Hoary redpoll.

Aegiothus exilipes Coues, Proc. acad. nat. sci. Phila., 1861, p. 385. "FORT SIMPSON."

Fringilla borealis Temm. Audubon, Ornith. biogr., 1839, vol. 5, p. 87, pl. 400.

Arctic thickets in summer, open tree growth in winter migrations; nests in low trees.

ME.— Rare winter visitor: Westbrook, Jan. 26, 1896; eastern Maine (Boardman).

N. H.— Rare winter visitor: Hampton.

VT.— Doubtfully reported.

MASS.— Rare winter visitor (some ten instances). Nov. 15–Mar. 20.

276. ACANTHIS LINARIA (Linné) Bonaparte and Schlegel.

Redpoll; Lesser redpoll; Mealy redpoll.

Ridgway, Bull. 50, U. S. nat. mus., 1901, pt. 1, p. 85. Egg, Seebohm, 1896, p. 246, pl. 57, figs. 6, 7.

Fringilla linaria Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 182. "IN EUROPA." Audubon, Ornith. biogr., 1838, vol. 4, p. 523, pl. 375.

Arctic thickets in summer, open tree growth in winter migrations; nests in low trees.

ME.— Winter visitor of irregular abundance, and rare summer resident (Calais). Oct. 12–April 27 (May 19, 1875; summer).

N. H.— Winter visitor of irregular abundance. Nov. 1–April.

VT.— Winter visitor of irregular abundance; (nest and three eggs said to have been found in late March, 1878, at Taftsville). Nov. 11–May 1 (May 11).

MASS.— Irregularly common fall and winter visitor. (Oct. 16) Oct. 25–April 25.

R. I.— Irregularly common fall and winter visitor. Oct.–Mar. 25.

CONN.— Irregularly common fall and winter visitor. Fall–Mar. 31.

277. ACANTHIS LINARIA HOLBOELLII (C. L. Brehm) Dubois.

Holboell's redpoll.

Ridgway, Bull. 50, U. S. nat. mus., 1901, pt. 1, pp. 80, 89.

Linaria holboellii C. L. Brehm, Handb. d. naturgesch. aller vögel Deutschl., 1831, p. 280. "IN DAS MITTLERE DEUTSCHLAND."

Acanthis holboellii Bonaparte and Schlegel, Monogr. Loxiens, 1850, p. 50, pl. 53.

Arctic thickets in summer, open tree growth in winter migrations; nests in low trees.

ME.— Rare winter visitor: Gorham, Feb. 3, 1903; North Bridgton, Nov. 25, 1878.

MASS.— Rare winter visitor: Lexington, Mar. 10, 1890; Swampscott, two, Mar. 26, 1883.

278. ACANTHIS LINARIA ROSTRATA (Coues) Stejneger.

Greater redpoll.

Ridgway, Bull. 50, U. S. nat. mus., 1901, pt. 1, pp. 80, 91.

FRINGILLIDAE.

Acanthis rostratus Coues, Proc. acad. nat. sci. Phila., 1861, p. 378. "JACOBSHAVN, GREENLAND."

Linota hornemanni Holb. Dresser, Birds of Europe, 1871–81, vol. 4, pl. [190], lower fig.

Arctic thickets in summer, open tree growth in winter migrations; nests in low trees.

ME.— Winter visitor of irregular abundance. Dec. 12–Mar. 15.

N. H.— Unsatisfactorily recorded.

MASS.— Winter visitor near coast, irregular and sometimes common. Dec. 27–Feb. 25.

R. I.— Rare winter visitor: East Providence, Mar. 14, 1896.

CONN.— Rare winter visitor: New Haven, Dec. 17, 1878.

279. ASTRAGALINUS TRISTIS (Linné) Cabanis.

American goldfinch; Lettuce-bird; Thistle-bird; Wild canary; Yellow-bird.

Fringilla tristis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 181. "IN AMERICA SEPTENTRIONALI."

Spinus tristis (Linné). Chapman, Handb. birds east. No. Amer., 1895, p. 286; Bird-life, 1898, pl. 52. Egg, Capen, 1886, pl. 8, fig. 3.

Orchards, shade trees, and edges of woods in summer, weedy fields and open country in winter; nests in trees.

ME.— Common migrant and summer resident; uncommon in winter. Eggs, July 29–Aug. 18 (Sept. 5).

N. H.— Common migrant and summer resident; uncommon in winter from White Mts. south.

VT.— Common migrant and summer resident, less common in winter. Eggs, July 26.

MASS.— Common migrant and summer resident, less common winter resident. Eggs, July 21–Aug. 11.

R. I.— Common summer, and less common winter resident. Eggs, July 1–Aug. 7.

CONN.— Common resident. Eggs, July–Aug.

PASSERES. OSCINES.

FRINGILLIDAE.

280. SPINUS PINUS (Wilson) Stejneger.

Pine siskin; Gray linnet; Pine finch; Pine linnet.

Fringilla pinus Wils., Amer. ornith., 1810, vol. 2, p. 133, pl. 17, fig. 1. "NEIGHBOURHOOD OF PHILADELPHIA."

Linaria pinus (Wils.). Audubon, Birds of Amer., 1841, vol. 3, p. 125, pl. 180. Egg, Capen, 1886, pl. 8, fig. 4.

Coniferous forests in summer, open country and coniferous trees in fall and winter; nests in trees.

ME.— Common resident of northern part; elsewhere of irregular occurrence mainly in fall and winter. Eggs, April.

N. H.— Common resident, breeding mainly above 3000 ft. in White Mts. Eggs, mid-April.

VT.— Common winter visitor, less common in summer, breeding irregularly. Nesting, April–May 15.

MASS.— Irregularly common fall and winter visitor, sometimes lingering till late spring and rarely nesting. Sept. 19–May 30 (June 8, July 15, summer). Eggs, May 9–29.

R. I.— Irregularly common fall and winter visitor. Oct.–April 17 (May 31).

CONN.— Irregularly common fall and winter visitor. Oct.–April (May 20).

281. SPINUS SPINUS (Linné) Stejneger.

European siskin.

Fringilla spinus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 181. "IN EUROPAE JUNIPERETIS."

Chrysomitris spinus (Linné). Dresser, Birds of Europe, 1871–81, vol. 3, p. [541], pl. [169]. Egg, Seebohm, 1896, p. 242, pl. 56, fig. 18.

Coniferous woods; nests in trees.

MASS.— Cambridge, Aug. 11, 13, 17, 1904, an apparently wild bird (Brewster).

FRINGILLIDAE.

282. PLECTROPHENAX NIVALIS (Linné) Stejneger.

Snowflake; Snow bunting; White snowbird.

Emberiza nivalis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 176. "IN ALPIBUS LAPPONIAE, SPITZBERGAE AD SINUM HUDSONIS ALIBIQUE."

Plectrophanes nivalis (Linné). Audubon, Birds of Amer., 1841, vol. 3, p. 55, pl. 155. Egg, Seebohm, 1896, p. 247, pl. 57, figs. 9, 10.

Open fields, coasts, and barrens; nests on the ground.

ME.— Common migrant and winter resident (? accidental in summer, flock, Mt. Ktaadn, early Aug. 1869, *fide* Minot). (Oct. 10) Oct. 15–April 13.

N. H.— Common migrant and winter resident; accidental in summer (Webster, June, a cripple). Oct. 18–April 6.

VT.— Common migrant and winter resident. Nov. 17–spring.

MASS.— Common winter resident, especially coastwise. Oct. 12–April 3 (May).

R. I.— Common winter resident. Oct. 29–Mar. 29.

CONN.— Irregularly common winter resident. Nov. 14–Mar.

283. CALCARIUS LAPPONICUS (Linné) Stejneger.

Lapland longspur.

Ridgway, Bull. 50, U. S. nat. mus., 1901, pt. 1, p. 155.

Fringilla lapponica Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 180. "IN LAPPONIA."

Plectrophanes lapponicus (Linné). Dresser, Birds of Europe, 1871–81, vol. 4, pl. [223]. Egg, Seebohm, 1896, p. 248, pl. 57, figs. 11, 12.

Open barrens and plains; nests on the ground.

ME.— Rare migrant. Mar. 10–16; Oct. 26–Dec. 29.

N. H.— Rare migrant in late fall: Hampton Beach, Nov. 30, 1899.

FRINGILLIDAE.

VT.— Rare or accidental migrant: Brandon, Feb. 21, 1879; ? Townshend.

MASS.— Rare spring and uncommon fall migrant and winter resident mainly coastwise. Feb. 22–May 1; Oct. 9–Dec. 11; winter.

R. I.— Uncommon migrant and rare winter resident. (Jan. 6, Feb. 16).

CONN.— Uncommon migrant; may winter. (Jan. 26, 1883, Portland) Feb. 11–Mar. 16; Nov.

284. CALCARIUS ORNATUS (Townsend) Stejneger.

Chestnut-collared longspur.

Plectrophanes ornata Towns., Journ. acad. nat. sci. Phila., 1837, vol. 7, pt. 2, p. 189. "PRAIRIES OF THE PLATTE RIVER." Audubon, Birds of Amer., 1841, vol. 3, p. 53, pl. 154.

Open plains; nests on the ground.

ME.— Accidental visitor: Scarborough, Aug. 13, 1886.

MASS.— Accidental visitor: Magnolia, July 28, 1876.

285. POOECETES GRAMINEUS (Gmelin) Baird.

Vesper sparrow; Bay-winged bunting; Grass finch; Gray-bird; Ground sparrow; White-tailed field sparrow.

Fringilla graminea Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 922. "IN NOVEBORACO."

Emberiza graminea (Gmel.). Audubon, Birds of Amer., 1841, vol. 3, p. 65, pl. 159. Egg, Capen, 1886, pl. 8, fig. 9–12.

Grassy fields and uplands; nests on the ground.

ME.— Common migrant and summer resident. (Mar. 30) April 9–Oct. 28. Eggs, late May–June 24; late July–Aug. (2d brood).

N. H.— Common migrant and summer resident at lower elevations. Mar. 29–Oct. (Nov. 14).

FRINGILLIDAE.

VT.—Common migrant and summer resident. Mar. 31–fall. Eggs, June 6.

MASS.—Common migrant and summer resident. (Mar. 17) Mar. 27–Oct. 24 (Nov. 10; Dec. 25, 1889, Somerville). Eggs, May 10–June 10.

R. I.—Common migrant and summer resident. Mar. 19–Oct. 17. Eggs, May 5–21.

CONN.—Common migrant and summer resident; rare winter resident. Late Mar.–Nov. (winter). Eggs, May 22–July 5.

286. PASSERCULUS PRINCEPS Maynard.

Ipswich sparrow; Gray-bird.

Mayn., Amer. nat., 1872, vol. 6, p. 637. "IPSWICH," Mass.

Ammodramus princeps (Mayn.). Dwight, Mem. Nuttall ornith. club, 1895, no. 2, p. 21, plate.

Sand dunes and sea shores; nests on the ground (Sable Id., N. S.).

ME.—Rare migrant coastwise; may winter rarely. Mar. 20–April 8; Oct. 11–Nov. 17 (Jan. 23, 1886, near Pine Point).

N. H.—Rare migrant coastwise. Mar.–April; late Oct.–early Dec. (*nec* Lake Umbagog.)

MASS.—Common migrant and rare winter resident among coastal dunes; casual inland (Fresh Pond, Cambridge). Oct. 12–April 12.

R. I.—Uncommon migrant and winter resident among coastal dunes. Oct. 20–April 11.

CONN.—Uncommon migrant and winter resident coastwise. Oct.–Mar. 24.

287. PASSERCULUS SANDWICHENSIS SAVANNA (Wilson) Ridgway.

Savanna sparrow.

Ridgway, Bull. 50, U. S. nat. mus., 1901, pt. 1, p. 192.

Fringilla savanna Wils., Amer. ornith., 1811, vol. 3, p. 55, pl. 22, fig. 3. "ATLANTIC COAST, FROM SAVANNAH . . . TO . . . NEW

York." Audubon, Ornith. biogr., 1839, vol. 5, p. 516, pl. 109. Egg, Capen, 1886, pl. 8, fig. 5–8.

Grassy fields and marshes; nests on the ground.

Me.— Common summer resident, accidental in winter. (Jan. 24, 1897, Seguin Id.) April 6–early Nov. (Nov. 28). Eggs, May 31–June 18; July (2d brood).

N. H.— Common summer resident at lower elevations, uncommon on barren summits of White Mts. (Mar. 31) April 15–Oct. 27. Eggs, June 16–late July.

Vt.— Common summer resident. April 7–fall.

Mass.— Common migrant and summer resident; rare winter resident near coast (Ipswich, Longmeadow, Sandwich). (Mar. 22) April 5–Nov. 12 (winter). Eggs, May 21–June 20.

R. I.— Common migrant, less common summer and rare winter resident. April 4–Oct. 23 (winter). Eggs, May 17–29.

Conn.— Common migrant and summer resident. April–Nov.

288. Coturniculus savannarum australis (Maynard) A. O. U. comm.

Grasshopper sparrow; Yellow-winged sparrow.

Ammodromus australis Mayn., Amer. exch. and mart, 1887, vol. 3, p. 33. "Bahamas .... Florida."

Ammodramus savannarum passerinus (Wils.). Chapman, Handb. birds east. No. Amer., 1895, p. 293.

Emberiza passerina (Wils.). Audubon, Birds of Amer., 1841, vol. 3, pl. 162. Egg, Capen, 1886, pl. 8, fig. 13–15.

Grassy fields and meadows; nests on the ground.

Me.— Rare summer visitor (? or resident) east to Calais. May 24–June 29.

N. H.— Rare summer resident in lowlands south of Lake Winnepesaukee. May 13–?

Vt.— Rare summer resident of southern and western valleys. Eggs, July 17.

MASS.—Uncommon local summer resident near coast and in western valleys. (April 25) May 10–Sept. 1 (Dec. 10, 1892, Arlington).

R. I.—Common local summer resident. April 22–Oct. 23. Eggs, May 30–June 5.

CONN.—Common summer resident in southern part and Connecticut valley. Late April–?

289. AMMODRAMUS HENSLOWII (Audubon) Gray.

Henslow's sparrow.

Emberiza henslowii Aud., Ornith. biogr., 1831, vol. 1, p. 360, pl. 77. "OPPOSITE CINCINNATI, IN THE STATE OF KENTUCKY."

Ammodramus henslowii (Aud.). Chapman, Handb. birds east. No. Amer., 1895, p. 294. Egg, Capen, 1886, pl. 9, figs. 1, 2.

Meadows and sedgy weed-grown bogs; nests on the ground.

N. H.—Rare local summer resident north to White Mt. valleys (Wonalancet). April 17–Aug.

VT.—Rare local summer resident in southern part (Pownall).

MASS.—Uncommon local summer resident. May 6–Sept. (Nov. 6, Osterville). Eggs, May 25.

R. I.—Rare migrant and summer resident: Cranston, late April, 1874; Warwick, Oct. 6, 1898; Westerly, June 6 and 8, 1900.

CONN.—Rare local summer resident (Eastford, Killingworth, Woodstock, etc.). May–fall. Eggs, –Aug. 6.

290. AMMODRAMUS CAUDACUTUS (Gmelin) Swainson.

Sharp-tailed sparrow.

Chapman, Handb. birds east. No. Amer., 1895, p. 295; Audubon, Birds of Amer., 1841, vol. 3, p. 108, pl. 174. Egg, Capen, 1886, pl. 9, figs. 3, 4.

Oriolus caudacutus Gmel., Syst. nat., 1788, vol. 1, pt. 1, p. 394. "IN NOVEBORACO."

Salt marshes; nests on the ground.

ME.— Rare summer resident locally in Cumberland Co. June 5–late Oct. (? Nov.).

N. H.— Rare summer resident of the coastal salt marshes. Spring–Oct. 14.

VT.— Doubtfully recorded (Lunenburg).

MASS.— Uncommon summer resident of the coastal salt marshes (Ipswich); rare winter resident (West Barnstable). May 19–Nov. 8 (winter). Eggs, June 8–July 12.

R. I.— Common summer resident of the coastal salt marshes. May 15–Oct. 2. Eggs, May 24–July 14.

CONN.— Common summer and rare winter resident of the coastal salt marshes. April 14–Nov. (winter). Eggs, May 31–June 9.

291. AMMODRAMUS NELSONI (Allen) Norton.

Nelson's sparrow; Nelson's sharp-tailed finch.

Ammodromus caudacutus var. *nelsoni* Allen, Proc. Boston soc. nat. hist., 1875, vol. 17, p. 293. "CALUMET MARSHES NEAR CHICAGO, ILL."

Ammodramus caudacutus nelsoni Allen. Dwight, Auk, 1896, vol. 13, p. 273–274, pl. 4, lower fig.

Marshes; nests on the ground.

ME.— Uncommon migrant. May 22–June 5; Oct. 9–25.

MASS.— Uncommon fall migrant; rare winter resident on south coast. Sept. 25–Oct. 15 (winter).

CONN.— Rare spring and uncommon fall migrant on coastal marshes. May; Oct.

292. AMMODRAMUS NELSONI SUBVIRGATUS (Dwight) Norton.

Acadian sharp-tailed sparrow.

Ammodramus caudacutus subvirgatus Dwight, Auk, 1887, vol. 4

p. 233. "Hillsborough, Albert Co., New Brunswick." Dwight, Auk, 1896, vol. 13, pl. 4, upper fig.

Brackish or freshwater marshes; nests on the ground.

Me.— Uncommon migrant and local summer resident coastwise from Sagadahoc Co., north. May 20–summer; Sept. 10–Oct. 24 (Nov. 15).

Mass.— Uncommon migrant coastwise (once at Springfield). May 20–June 11; Sept. 3–Nov. 5.

R. I.— Uncommon migrant: Charlestown Beach, four, Oct. 15, 1899; Point Judith, April 27, 1887.

Conn.— Rare spring and uncommon fall migrant. Late May–June 9; Oct.

293. Ammodramus maritimus (Wilson) Swainson.

Seaside sparrow or finch; Meadow chippy.

Audubon, Birds of Amer., 1841, vol. 3, p. 103, pl. 172. Egg, Capen, 1886, pl. 9, figs. 5, 6.

Fringilla maritima Wils., Amer. ornith., 1811, vol. 4, p. 68, pl. 34, fig. 2. "Low, rush-covered sea islands along our Atlantic coast."

Salt marshes; nests on the ground.

Me.— Accidental visitor: Shark Id., Aug. 18, 1884.

N. H.— Erroneously recorded for *A. caudacutus*.

Mass.— Rare local summer (Westport) and winter resident on south coast. April 14–(winter). Eggs, July 17.

R. I.— Uncommon summer resident at Point Judith and Middletown marshes. Eggs, July 14.

Conn.— Common summer and possibly rare winter resident of the salt marshes. Late May–Sept. (Dec. 9, 1889, Bridgeport). Eggs, June 8–19.

PASSERES. OSCINES.

FRINGILLIDAE.

294. CHONDESTES GRAMMACUS (Say) Bonaparte.

Lark sparrow; Quailhead; Road-bird.

Fringilla grammaca Say, Long's Exped. to Rocky Mts., 1823, vol. 1, p. 139. "BELLE FONTAIN, AS WELL AS AT SEVERAL OTHER POINTS ON THIS [MISSOURI] RIVER." Bonap., Amer. ornith., 1825, vol. 1, p. 47, pl. 5, fig. 3.

Grassy fields; nests on the ground or in low trees and bushes.

MASS.— Rare visitor (seven records). April 29; Aug. 12–Nov. 25.

295. ZONOTRICHIA LEUCOPHRYS (Forster) Swainson.

White-crowned sparrow.

Emberiza leucophrys Forst., Phil. trans. roy. soc. London, 1772, vol. 62, p. 426. "IN AMERICA BOREALI AD SINUM HUDSONIS."

Fringilla leucophrys Gmel. Audubon, Birds of Amer., 1841, vol. 3, p. 157, pl. 192.

Edges of thickets; nests on the ground or in low bushes.

ME.— Uncommon migrant; casual in summer (Androscoggin Lake, June, 1898; Farmington, late June, 1887; Woolastook Valley, Aug.). (May 2) May 5–25; (June, Aug.); Sept. 22–Oct. 22 (Nov. 8).

N. H.— Uncommon migrant. May 6–25; Sept. 21–Oct. 11.

VT.— Uncommon migrant; said to have bred at Rutland; nest built and one egg laid at East Berkshire. May 14 (July, 1906, Mt. Mansfield); Oct. 4–24.

MASS.— Uncommon migrant. May 4–27 (June 6); Sept. 23–Nov. 5.

R. I.— Uncommon migrant; casual in summer (near Providence, July 9). May; Oct.

CONN.— Uncommon migrant; may winter rarely. (Mar. 20) May 10–15; Oct. 12–Dec. 5.

FRINGILLIDAE.

296. ZONOTRICHIA ALBICOLLIS (Gmelin) Swainson.

White-throated sparrow; Mountain lark; Peabody-bird.

Fringilla albicollis Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 921. "IN PENSILVANIA."

Fringilla pennsylvanica Latham. Audubon, Birds of Amer., 1841, vol. 3, p. 153, pl. 191. Egg, Capen, 1886, pl. 10, figs. 5, 6.

Thickets; nests on the ground, rarely in bushes.

ME. — Common migrant, and from Cumberland Co. north, a common summer resident; accidental in winter (Falmouth, winter, 1904; Lewiston, Mar. 30, 1904; Lubec, Mar. 24, 1906; Saco Jan. 20, 1886). April 18–Nov. 9 (Nov. 20) (winter). Eggs, May 24–June 13.

N. H.— Common migrant, and a common summer resident to 5000 ft. in northern half, local in southern. April 23–May 14; summer; Sept.–Oct.

VT.— Common migrant, and except at lower elevations, a less common summer resident; accidental in winter (Brattleboro, Dec. 25, 1904, Mar. 31, 1907). April 29–Oct. 24 (winter). Eggs, June 21–July 3.

MASS.— Common migrant and at higher elevations of western part, a less common summer resident, sporadic in eastern (Boxford, Framingham, Wakefield); rare winter resident near coast. April 15–May 26; summer; Sept. 1–Nov. 24; winter. Eggs, June.

R. I.— Common migrant and rare winter resident. April 28–May 10; Oct. 1–Nov. 1; winter.

CONN.— Common migrant and uncommon winter resident; may breed at higher elevations (Litchfield, June 26, 1906). April 15–May 20 (June); Sept. 22–Nov.; winter.

297. SPIZELLA MONTICOLA (Gmelin) Baird.

Tree sparrow; Winter chip-bird; Winter chippy.

Chapman, Handb. birds east. No. Amer., 1895, p. 301; Bird-life, 1898, pl. 49.

PASSERES. OSCINES.

FRINGILLIDAE.

Fringilla monticola Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 912. "IN AMERICA SEPTENTRIONALI."

Arctic thickets in summer; fields and marshes in winter migration; nests on the ground.

ME.— Common migrant and in southern counties a winter resident. (Early Aug., Fort Kent; Sept.) Oct. 8–April 28 (May 16).

N. H.— Common migrant, and from White Mts. south, uncommon winter resident. Oct. 8–April 24.

VT.— Common migrant and less common winter resident. Oct.–April.

MASS.— Common migrant and less common winter resident. (Sept. 21) Oct. 16–April 28 (May 7, 1893, Lexington).

R. I.— Common winter resident. Nov. 7–April 15.

CONN.— Common migrant and less common winter resident. Oct. 28–April 12.

298. SPIZELLA PASSERINA (Bechstein) A. O. U. comm.

Chipping sparrow; Chip-bird; Chippy; Hair-bird.

Fringilla passerina Bechstein, in Latham, Allgem. uebers. vögel, 1798, vol. 3, pt. 2, p. 544, pl. 120, fig. 1. "CANADA."

Spizella socialis (Wils.). Chapman, Handb. birds east. No. Amer., 1895, p. 302. Egg, Capen, 1886, pl. 10, figs. 1, 2.

Fringilla socialis Wils. Audubon, Ornith. biogr., 1839, vol. 5, p. 517, pl. 104.

Orchards, fields, and vicinity of dwellings; nests in trees, hedges, or vines.

ME.— Common migrant and summer resident. (April 2) April 9–Oct. 23 (Nov. 7). Eggs, May 23–June 2; early July (2d brood).

N. H.— Common migrant and summer resident at lower elevations. April 10–Oct. 31. Eggs, May 31–June 16; July 29 (2d brood).

VT.— Common migrant and summer resident. April 4–Oct.

FRINGILLIDAE.

MASS.— Common migrant and summer resident. (Mar. 13, 24) April 5–Nov. 25 (Dec. 31, 1869, Watertown). Eggs, May 12–June 26 (2d brood ?).

R. I.— Common migrant and summer resident. April 4–Oct. 17. Eggs, May 19–June 15.

CONN.— Common migrant and summer resident; rare winter resident. April–Nov. (winter).

299. SPIZELLA BREWERI Cassin.

Brewer's sparrow.

Cass., Proc. acad. nat. sci. Phila., 1856, vol. 8, p. 40. "WESTERN NORTH AMERICA, CALIFORNIA, NEW MEXICO." Ridgway, Bull. 50, U. S. nat. mus., 1901, pt. 1, p. 326.

Emberiza pallida Swains. Audubon, Birds of Amer., 1841, vol. 3, pl. 161 (*fide* Ridgway).

Prairies; nests on the ground.

MASS.— Accidental visitor: Watertown, Dec. 15, 1873.

300. SPIZELLA PUSILLA (Wilson) Bonaparte.

Field sparrow; Ground sparrow; Huckleberry-bird.

Ridgway, Bull. 50, U. S. nat. mus., 1901, pt. 1, p. 318. Egg, Capen, 1886, pl. 10, figs. 3, 4.

Fringilla pusilla Wils., Amer. ornith., 1810, vol. 2, p. 121, pl. 16, fig. 2. "PENNSYLVANIA....NORTH AND SOUTH CAROLINA.... GEORGIA." Audubon, Ornith. biogr., 1834, vol. 2, pl. 139.

Bushy fields; nests on the ground or in low bushes.

ME.— Uncommon summer resident in southern counties. April 7–Oct. 1.

N. H.— Locally common summer resident north to White Mt. valleys April 3–Oct. Eggs, June 12.

VT.— Locally common summer resident. April 4–fall (Dec. 25, 1908, Clarendon). Eggs, July 10.

PASSERES. OSCINES.

FRINGILLIDAE.

MASS.— Common summer resident and near the coast a rare winter resident. (Mar. 29) April 1–Nov. 13; (winter). Eggs, May 8–June 12.

R. I.— Common summer and rare winter resident. April–Oct. 23; (winter). Eggs, May 19–June 11.

CONN.— Common summer and rare winter resident. (Late Mar.) April 6–Dec. 2 (winter, Hartford, New Haven). Eggs, June 22.

301. JUNCO HYEMALIS (Linné) Sclater.

Slate-colored Junco; Black snowbird; Blue snowbird; Junco; Snowbird; White-bill.

Chapman, Handb. birds east. No. Amer., 1895, p. 304; Bird-life, 1898, pl. 48. Egg, Capen, 1886, pl. 9, figs. 14, 15.

Fringilla hyemalis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 183. "AMERICA."

Thickets, weedy and brushgrown fields; nests on the ground, rarely in bushes.

ME., N. H.— Common migrant and mainly in northern part, a common summer resident; rare winter resident in southern part Eggs, May 7–June 29; July 19 (2d brood).

VT.— Common migrant, less common summer and winter resident.

MASS.— Common migrant, less common winter resident; uncommon summer resident in western highlands (Mts. Holyoke, Nonotuck, Tom, Wachusett, Berkshires), sporadic in east (? Boxford, Medford, Wellfleet). Mar. 8–May 21; summer; Sept. 3–Nov. 30; winter. Eggs, –(Aug. 6).

R. I.— Common migrant and winter resident. Oct. 2–April 4 (May 19).

CONN.— Common migrant and winter resident; rare local summer resident (Bear Mt., Salisbury, 2354 ft.). Oct. 8–May 3 (summer).

PASSERES. OSCINES.

FRINGILLIDAE.

302. JUNCO HYEMALIS MONTANUS (Ridgway) A. O. U. comm.

Montana Junco.

Junco montanus Ridgw., Auk, 1898, vol. 15, p. 321. "COLUMBIA FALLS, MONTANA." Bull. 50, U. S. nat. mus., 1901, pt. 1, p. 289.

Edges of thickets; nests on the ground.

MASS.— Accidental visitor: Watertown, Mar. 25, 1874 (this specimen has been recorded as *J. h. shufeldti* and *J. h. oregonus*).

303. MELOSPIZA MELODIA (Wilson) Baird.

Song sparrow; Bush sparrow; Ground-bird; Ground sparrow.

Fringilla melodia Wils., Amer. ornith., 1810, vol. 2, p. 125, pl. 16, fig. 4. "UNITED STATES." Audubon, Birds of Amer., 1841, vol. 3, pl. 189.

Melospiza cinerea melodia (Wils.). Ridgway, Bull. 50, U. S. nat. mus., 1901, pt. 1, p. 354. Egg, Capen, 1886, pl. 9, fig. 10–13.

Swamps, marshes, weedy fields; nests on the ground, in bushes, or even hollow trees.

ME.— Common migrant and summer resident; rare winter resident (Calais, Cape Elizabeth, Gardiner). Mar. 7–Nov. (winter). Eggs, (April) May 20–June 7; July (2d brood).

N. H.— Common migrant and summer resident at lower elevations; rare winter resident near coast. Mar. 9–Dec. (winter). Eggs, May 24–June 22; July 27 (2d brood).

VT.— Common migrant and summer resident; rare winter resident in southern part (Bethel, Brattleboro, Brownsville, Taftsville). Mar. 7–fall (winter).

MASS.— Common migrant and summer resident; less common winter resident at lower elevations. Mar. 10–Nov. 15; winter. Eggs, April 30–July 29 (2d brood).

R. I.— Common migrant and summer resident; less common winter resident. Mar. 1–Nov. 14; winter. Eggs, May 7–10.

CONN.— Common migrant and summer resident; less common winter resident. Eggs, May 24–(Aug. 20).

PASSERES. OSCINES.

FRINGILLIDAE.

304. MELOSPIZA LINCOLNII (Audubon) Baird.

Lincoln's sparrow; Lincoln's finch.

Fringilla lincolnii Aud., Ornith. biogr., 1834, vol. 2, p. 535, pl. 193. "LABRADOR."

Peucaea lincolnii Aud., Birds of Amer., 1841, vol. 3, p. 116, pl. 177.

Edges of dense thickets and tangled growth; nests on the ground.

ME.— Rare spring and uncommon fall migrant; rare summer resident in extreme north (Ft. Kent; ♂ said to have been taken at Boothbay, July 14, and four birds at Bobson's Id., Aug. 9). May 12–June 1; (summer); Sept. 8–Oct. 13.

N. H.— Rare spring and uncommon fall migrant (once reported in summer, Nubanusit Lake, July 28, 1900, Thayer). May 13–26; (? summer); Sept. 7–Oct. 4.

VT.— Rare migrant.

MASS.— Rare spring and uncommon fall migrant. May 7–June 1; Sept. 12–Oct. 14 (Nov. 1).

R. I.— Rare migrant, mainly in fall. (Spring); Sept. 27.

CONN.— Rare spring and uncommon fall migrant. May 23; Sept. 21–Oct. 3.

305. MELOSPIZA GEORGIANA (Latham) Ridgway.

Swamp sparrow.

Ridgway, Bull. 50, U. S. nat. mus., 1901, pt. 1, p. 382.

Fringilla georgiana Lath., Index ornith., 1790, vol. 1, p. 460. "CUM PRAECEDENTE," = "IN GEORGIAE AMERICANAE INTERIORIBUS."

Fringilla palustris Wils. Audubon, Ornith. biogr., 1839, vol. 5, pl. 64. Egg, Capen, 1886, pl. 9, fig. 7–9.

Swamps, marshes, and old fields; nests on the ground.

ME.— Uncommon migrant and local summer resident. (Mar. 20, Bangor) April 6–Nov. 15. Eggs, May 31–June 3.

N. H., Vt.— Common migrant and less common local summer resident at lower elevations. April–Oct. 25.

Mass.— Common migrant and local summer resident; rare winter resident near the coast (to Beverly, Fresh Pond, Cambridge). Mar. 27–Nov. 30; winter. Eggs, May 13–July 14.

R. I.— Common migrant and less common local summer resident; may winter locally. April 4–Nov. 14 (Dec. 25). Eggs, May 24–31.

Conn.— Common migrant and less common local summer resident; rare winter resident. April 5–Nov. 20 (winter).

306. Passerella iliaca (Merrem) Swainson.

Fox sparrow; Fox-colored sparrow.

Fringilla iliaca Merr., Beitr. z. besond. gesch. d. vögel, 1786–87, vol. 2, p. 40–41, pl. 10. "Nord–Amerika." Audubon, Ornith. biogr., 1835, vol. 2, p. 58, pl. 108.

Thickets and edges of woods; nests on the ground or in low trees.

Me.— Common migrant; accidental in winter. Mar. 15–April 17 (May 15); Oct. 8–Nov. 28 (Dec. 2, 9, 17, Seguin Id.; Jan. 24, 1909, Cape Elizabeth; Feb.).

N. H.— Common migrant. Mar 16–April 23; Oct. 5–Nov. 13.

Vt.— Common migrant. Mar. 15–April 5; fall.

Mass.— Common migrant and rare winter resident near the coast. (Feb. 26, 1906, Springfield; Mar. 3) Mar. 9–April 25 (May 2); (Sept. 17, Oct. 2) Oct. 15–Nov. 29 (Dec. 6 and winter).

R. I.— Common migrant and occasional winter resident. Mar. 19–April 20 (May 21); Oct. 13–Nov. 27 (winter).

Conn.— Common migrant, and rare winter resident. Mar. 6–April 19; Oct. 10–Nov. 28 (winter).

307. Pipilo erythrophthalmus (Linné) Vieillot.

Towhee; Chewink; Ground robin; Marsh robin; Pewink.

Chapman, Handb. birds east. No. Amer., 1895, p. 310; Bird-life, 1898, pl. 55. Egg, Capen, 1886, pl. 10, fig. 13–15.

PASSERES. OSCINES.

FRINGILLIDAE.

Fringilla erythrophthalma Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 180. "America."

Thickets and sprout land; nests on the ground, rarely in bushes.

Me.— Uncommon summer resident in southwestern counties. May 6–Oct. 18 (Nov. 21).

N. H.— Common summer resident in southern part, becoming uncommon north to White Mt. valleys. May 1–Oct. 15.

Vt.— Uncommon summer resident. May–Sept.

Mass.— Common summer and very rare winter resident. (April 2) April 18–Oct. 22 (Nov. 30, Dec. 4); (winter). Eggs, May 17–June 12.

R. I.— Common summer and very rare winter resident. April 19–Oct. 13 (Jan. 14, 1896, Newport). Eggs, May 21–June 3.

Conn.— Common summer and very rare winter resident. April 25–Nov. 25 (Dec. 28, 1908, New Haven; Jan. 22, 1876, Portland). Eggs, May 21–June 6.

308. Cardinalis cardinalis (Linné) Lichtenstein.

Cardinal; Cardinal grosbeak; Red-bird; Virginia nightingale.

Loxia cardinalis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 172. "in America septentrionali."

Pitylus cardinalis Linné. Audubon, Birds of Amer., 1841, vol. 3, p. 198, pl. 203. Egg, Capen, 1886, pl. 10, figs. 11, 12.

Bushy fields and thickets; nests in bushes.

Me.— Several recorded; probably some are escaped cage birds (♀ from flock of three, Gardiner, Dec. 19, 1895).

Vt.— Rare visitor or escape: Brattleboro.

Mass.— Occasional visitor at all seasons and escape; doubtfully stated to have bred at Cambridge (a wild bird and a freed cage bird nested in Brookline, eggs, June 6, 1898).

Conn.— Occasional visitor or escape.

FRINGILLIDAE.

309. ZAMELODIA LUDOVICIANA (Linné) Coues.

Rose-breasted grosbeak; Throat-cut.

Loxia ludoviciana Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 306. "IN LUDOVICIA."

Habia ludoviciana (Linné). Chapman, Handb. birds east. No. Amer., 1895, p. 312; Bird-life, 1898, pl. 54; Stone, Auk, 1899, vol. 16, pl. 4. Egg, Capen, 1886, pl. 10, figs. 9, 10.

Orchard and shade trees and borders of woods near water; nests in bushes and trees.

ME.—Common summer resident except in eastern part. (April 26) May 4–Aug. 27. Eggs, June 10–30.

N. H.—Common summer resident at lower elevations. May 12–Sept. 18.

VT.—Common summer resident. May–Sept. 14. Eggs, June 2–23.

MASS.—Common summer resident. (April 26) May 2–Oct. 3. Eggs, May 25–June 15.

R. I.—Common summer resident, mainly in northern part. May 4–Oct. 2. Eggs, May 23–June 4.

CONN.—Common summer resident; accidental in winter. May 1–Sept. (Nov. 25; Jan. 18, 1893, Stonington). Eggs, May 24.

310. GUIRACA CAERULEA (Linné) Swainson.

Blue grosbeak.

Chapman, Handb. birds east. No. Amer., 1895, p. 313. McAtee, U. S. dept. agric., biol. surv., bull. 32, pl. 4.

Loxia caerulea Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 175. "AMERICA."

Brush-grown fields and thickets; nests in bushes or weedy growths.

ME.—Recorded from Calais, but in error for Grand Menan, N. B.

FRINGILLIDAE.

N. H.— Doubtfully recorded from East Derry, May 26, 1894.

Vt.— Doubtfully recorded.

Mass.— Accidental visitor: Brookline, May 29, 1880.

R. I.— Accidental visitor: Drownville, Oct. 12, 1899.

311. Passerina cyanea (Linné) Vieillot.

Indigo bunting; Indigo-bird.

Tanagra cyanea Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 315. "in Carolina."

Spiza cyanea Wils. Audubon, Birds of Amer., 1841, vol. 3, p. 96, pl. 170. Egg, Capen, 1886, pl. 10, fig. 8.

Brush-grown fields, thickets, and weedy tangles; nests among low bushes, brambles, or tall weeds.

Me.— Common summer resident in southern, and rare in northern counties (Caribou). May 11–Oct. 2. Eggs, June–July 15.

N. H.— Common migrant and summer resident at lower elevations. May 9–Oct. 1.

Vt.— Common migrant and summer resident. May 18–fall. Eggs, May 30.

Mass.— Common migrant and summer resident. May 8–Oct. 29 (Dec. 5, 1871, Watertown). Eggs, June 3–22.

R. I.— Common summer resident, mainly in northern part. May 10–Oct. Eggs, June 1–11.

Conn.— Common migrant and summer resident. May 9–Oct. Eggs, June 16.

312. Spiza americana (Gmelin) Ridgway.

Dickcissel; Black-throated bunting; Judas-bird.

Emberiza americana Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 872. "in Noveboraco." Audubon, Birds of Amer., 1841, vol. 3, p. 58, pl. 156. Egg, Capen, 1886, pl. 10, fig. 7.

Grassy fields; nests on the ground or in low bushes.

FRINGILLIDAE.

ME.— Accidental visitor: Job's Id., Penobscot Bay, Sept. 29, 1884; St. George; Westbrook, Oct. 10, 1888.

MASS.— Formerly an uncommon summer resident along coast and in western valleys; now unknown. May 15–Oct. 3. Eggs, June 9, 1877 (Medford)–Aug. 1, 1878 (2d brood, Hyde Park).

R. I.— Formerly a rare migrant: Newport, Sept. 25, 1888.

CONN.— Formerly a summer resident, now unknown.

313. CALAMOSPIZA MELANOCORYS Stejneger.

Lark bunting.

Stejn., Auk, 1885, vol. 2, p. 49. Based on Townsend: "PLAINS OF THE PLATTE RIVER."

Corydalina bicolor Towns. Audubon, Birds of Amer., 1841, vol. 3, p. 195, pl. 202.

Prairies; nests on the ground.

MASS.— Accidental visitor: Lynn, Dec. 5, 1877.

TANGARIDAE.

314. PIRANGA LUDOVICIANA (Wilson) Richardson.

Louisiana tanager; Western tanager.

Tanagra ludoviciana Wils., Amer. ornith., 1811, vol. 3, p. 27, pl. 20, fig. 1. "LOUISIANA."

Pyranga ludoviciana (Wils.). Audubon, Birds of Amer., 1841, vol. 3, p. 231, pl. 210.

Mountain forests; nests in trees.

ME.— Accidental visitor: near Bangor, about Oct. 1, 1889.

MASS.— Accidental visitor: Salem, Jan. 20, 1878.

CONN.— Accidental visitor: New Haven, Dec. 15, 1892.

315. PIRANGA ERYTHROMELAS Vieillot.

Scarlet tanager; English robin (Berkshires); **Fire-bird; Pocket-bird; War-bird.**

Pyranga erythromelas Vieill., Nouv. dict. d'hist. nat., 1819, vol. 28, p. 293. "AMÉRIQUE."

PASSERES. OSCINES.

TANGARIDAE.

Pyranga rubra (Linné). Audubon, Birds of Amer., 1841, vol. 3, p. 226, pl. 209. Egg, Capen, 1886, pl. 6, figs. 6, 7.

Deciduous woods, especially oaks and chestnuts; nests in trees.

Me.— Rare summer resident. May 12–Oct. 5.

N. H.— Uncommon summer resident, mainly below 2000 ft. south of White Mts. May 13–Sept. 25.

Vt.— Uncommon summer resident. May–fall.

Mass.— Common summer resident. (April 30, May 4) May 8–Oct. 16. Eggs, June 2–17.

R. I.— Common summer resident, mainly of northern part. (April 4, 1891, Apponaug) May 4–Oct. 9. Eggs, May 22–June 5.

Conn.— Common summer resident. May 10–Sept. 11. Eggs, May 31–June 17.

316. Piranga rubra (Linné) Vieillot.

Summer tanager; Summer redbird.

Fringilla rubra Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 181. "America."

Pyranga aestiva Gmel. Audubon, Birds of Amer., 1841, vol. 3, p. 222, pl. 208.

Open deciduous and mixed woods; nests in trees.

Me.— Accidental visitor: Portland, May 18, 1906; Wiscasset.

N. H., Vt.— Doubtfully recorded.

Mass.— Accidental summer visitor. April 21, May, June, July, Aug.

R. I.— Accidental summer visitor: Providence (two seen); Seaconnet, April 27, 1901; Ten Mile River.

Conn.— Rare visitor. April, July.

HIRUNDINIDAE.

317. Progne subis (Linné) Baird.

Purple martin; Black martin; Cape Cod swallow; House martin; Martin.

HIRUNDINIDAE.

Hirundo subis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 192. "AD SINUM HUDSONIS."

Hirundo purpurea Linné. Audubon, Birds of Amer., 1840, vol. 1, p. 170, pl. 45. Egg, Capen, 1886, pl. 7, fig. 1.

Open country and vicinity of dwellings; nests in cavities or bird houses.

ME.— Till recently a common local summer resident. April 22–Sept. 4 (Sept 30). Eggs, June 5–July 4.

N. H.— Local summer resident north to White Mt. valleys; now uncommon. April 19–Sept.

VT.— Till recently a common local summer resident. April 25–Sept. 20. Eggs, –June 23.

MASS.— Till recently a common local summer resident. April 14–Sept. 30. Eggs, May 30–June 21.

R. I.— Uncommon migrant and summer resident; formerly more common. April 25–Oct. 8. Eggs, May 25–June 4.

CONN.— Uncommon migrant and local summer resident; formerly more common. April 17–fall. Eggs, May 21.

318. PETROCHELIDON LUNIFRONS (Say) Cassin.

Cliff swallow; Eave swallow; Mud swallow; Republican.

Hirundo lunifrons Say, Long's Exped. to Rocky Mts., 1823, vol. 2, p. 47. "ROCKY MOUNTAINS, ABOUT THE SOURCES OF THE ARKANSA AND PLATTE."

Hirundo fulva Vieill. Audubon, Birds of Amer., 1840, vol. 1, p. 177, pl. 47. Egg, Capen, 1886, pl. 6, fig. 11–13.

Open country; nests in colonies under cliffs or eaves of outbuildings.

ME.— Common migrant and summer resident. (April 11, Bangor) April 21–Sept. 6 (Sept. 19). Eggs, June 1–July 2.

N. H.— Common migrant and local summer resident. April 28–Sept. 1.

HIRUNDINIDAE.

Vt.— Common migrant and summer resident. Late April–summer.

Mass.— Common migrant and less common local summer resident. April 23–Sept. 4 (Sept. 30). Eggs, May 25–July 20.

R. I.— Uncommon migrant and summer resident. April 28–Sept. 15. Eggs, May 31–July 16.

Conn.— Common migrant and less common local summer resident. (April 15) April 20–Sept. Eggs, May 26– ? (2 broods).

319. Hirundo erythrogaster Boddaert.

Barn swallow; Fork-tailed swallow.

Bodd., Tabl. d. planch. enlum. d'hist. nat., 1783, p. 45. Description in Buffon: "Cayenne."

Hirundo rustica Linné. Audubon, Birds of Amer., 1840, vol. 1, p. 181, pl. 48. Egg, Capen, 1886, pl. 6, figs. 8, 9.

Open country; nests in crevices of cliffs, but now generally on rafters of old barns.

Me.— Common migrant and summer resident. April 19–Sept. 19 (Oct. 29, Seguin Id.; Oct. 31, 1907, Portland). Eggs, May 28–June 24.

N. H.— Common migrant and summer resident at lower elevations. April 20–Sept. 21.

Vt.— Common migrant and summer resident. April 25–fall.

Mass.— Common migrant, less common summer resident. (April 5, 1893, Waltham) April 17–Sept. 30 (Oct. 7). Eggs, May 18–July 12.

R. I.— Common migrant and summer resident; still breeds in cliffs at Middletown. (April 10)–Sept. 23. Eggs, May 18–30.

Conn.— Common migrant and summer resident. April 21–Sept. Eggs, (! Sept. 3).

320. Iridoprocne bicolor (Vieillot) Coues.

Tree swallow; Little martin; White-bellied swallow.

Hirundo bicolor Vieill., Hist. nat. ois. Amér. Sept., 1807, vol. 1,

p. 61, pl. 31. "ÉTATS-UNIS." Audubon, Birds of Amer., 1840, vol. 1, p. 175, pl. 46. Egg, Capen, 1886, pl. 6, fig. 10.

Open country, especially near water; nests in cavities of dead trees or in bird boxes.

ME.— Common migrant and summer resident. (Mar. 19) April 4–Sept. 21. Eggs, May 30–June 11.

N. H.— Common migrant and less common summer resident at lower elevations. Mar. 23–Sept.

VT.— Common migrant and less common summer resident. Eggs, June 1.

MASS.— Common migrant and less common summer resident. (Mar. 15) Mar. 22–Oct. 17 (Nov. 2). Eggs, May 14–June 15.

R. I.— Common migrant and less common summer resident; casual in winter. (Mar. 12) Mar. 28–Oct. 18. Eggs, May 24–30.

CONN.— Common migrant and less common summer resident. Mar. 25–Oct. 17 (Oct. 22). Eggs, June.

321. RIPARIA RIPARIA (Linné) Sharpe and Wyatt.

Bank swallow; Sand martin or swallow.

Hirundo riparia Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 192. "IN EUROPAE COLLIBUS ARENOSIS ABRUPTIS." Audubon, Birds of Amer., 1840, vol. 1, p. 187, pl. 50. Egg, Capen, 1886, pl. 6, fig. 14.

Open country near rivers and lakes; nests in colonies in burrows dug in sandy bluffs.

ME.— Common migrant and summer resident. (April 19) April 25–Sept. 1 (Sept. 19). Eggs, May 29–June 24.

N. H.— Common migrant and local summer resident. May–Aug. 24. Eggs, May 26.

VT.— Common migrant and local summer resident. April 28–summer.

HIRUNDINIDAE.

MASS.— Common migrant and local summer resident. April 24–Sept. 2 (Nov. 2). Eggs, May 28–June 17.

R. I.— Common migrant and local summer resident. April 25–Aug. 29. Eggs, May 26–June 6.

CONN.— Common migrant and local summer resident. April 21–summer.

322. STELGIDOPTERYX SERRIPENNIS (Audubon) Baird.

Rough-winged swallow.

Chapman, Handb. birds east. No. Amer., 1895, p. 322, fig. 90. Egg, Capen, 1886, pl. 6, fig. 15.

Hirundo serripennis Aud., Ornith. biogr., 1838, vol. 4, p. 593. "A FEW MILES FROM BAYOU SARA," LA. Aud., Birds of Amer., 1840, vol. 1, pl. 51.

Open country near water; nests in holes in banks, or in cavities of cliffs and walls.

N. H.— Rare summer resident: near Hanover, 1905, 1906.

VT.— Rare summer resident (noted at Bennington; Lunenburg; Norwich, May 6, 1905, April 29, 1906; West Danville, June 11, 1901; White River Junction). April 29–summer. Eggs, May 16.

MASS.— Rare local summer resident in western part (Glendale, young, 1906; Longmeadow, nesting, May, 1906; North Adams, two nesting pairs, June, 1895). May–summer.

CONN.— Rare local summer resident. (April 12) May 9–summer. Eggs, May 26–June 9.

BOMBYCILLIDAE.

323. BOMBYCILLA GARRULA (Linné) Vieillot.

Bohemian waxwing.

Bonaparte, Amer. ornith., 1828, vol. 3, p. 14, pl. 16, fig. 2. Egg, Ibis, 1861, ser. 1, vol. 3, pl. 4, fig. 1–6.

BOMBYCILLIDAE.

Lanius garrulus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 95. "IN EUROPA & AMERICA BOREALI; AESTIVAT SUPRA SVECIAM."

Evergreen forests; nests in trees.

ME. — Rare and irregular winter visitor. Dec. 6–Feb. 6.

N. H. — Rare winter visitor: Hampton Falls, Feb. 17 and 21, 1897; Nashua, 1880.

VT. — Rare winter visitor: Brattleboro, April, 1901; Burlington (*bis*); St. Albans (*bis*). Nov. 25–April.

MASS. — Rare winter visitor: about six authentic records. Dec. 26–Feb. 18.

CONN. — Accidental winter visitor: East Windsor Hill, near Hartford; ? New Haven, Feb. 11, 1875.

324. BOMBYCILLA CEDRORUM Vieillot.

Cedar waxwing; Apple-bird; Canada robin; Cedar-bird; Cherry-bird.

Vieill., Hist. nat. ois. Amér. Sept., 1807, vol. 1, p. 38, pl. 57. "EN AMÉRIQUE DEPUIS LE CANADA JUSQU'AU MEXIQUE."

Ampelis cedrorum (Vieill.). Chapman, Handb. birds east. No. Amer., 1895, p. 323; Bird-life, 1898, pl. 57. Egg, Capen, 1886, pl. 7, figs. 2, 3.

Orchards, shade trees, and woods; nests in trees.

ME. — Common migrant and summer resident; rare in winter. Eggs, June 29.

N. H. — Common migrant, and at lower elevations a common summer resident; rare in winter in southern part. Eggs, July 29.

VT. — Common migrant and summer resident; uncommon in winter in southern part.

MASS. — Common migrant and less common summer resident; irregularly common in winter but generally absent in Nov. and Dec. Eggs, May 30–July.

R. I. — Common migrant and summer resident; irregular in winter. Eggs, June 7–20.

BOMBYCILLIDAE.

CONN.— Common migrant and summer resident; irregular in winter. Eggs, June 20–Aug. 1 (Aug. 27).

LANIIDAE.

325. LANIUS BOREALIS Vieillot.

Northern shrike; Butcher-bird.

Vieill., Hist. nat. ois. Amér. Sept., 1807, vol. 1, p. 80, pl. 50. "CANADA ET SUR-TOUT LA BAIE D'HUDSON." Audubon, Birds of Amer., 1842, vol. 4, p. 130, pl. 236.

Open country and edges of woods; nests in trees.

ME.— Uncommon winter resident; supposed breeding records refer to *L. l. migrans*. Oct. 15–April 17.

N. H.— Uncommon winter resident at lower elevations. Nov. 12–April.

VT.— Uncommon winter resident. Fall–April 13.

MASS.— Uncommon winter resident. (Oct. 6) Oct. 12–April 16 (May).

R. I.— Uncommon, irregular winter resident. Nov. 28–Mar. 23.

CONN.— Irregular winter resident, sometimes common. Oct. 29–Mar. 24 (April 11).

326. LANIUS LUDOVICIANUS Linné.

Loggerhead shrike.

Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 134. "IN LUDOVICIA." Ridgway, Bull. 50, U. S. nat. mus., 1904, pt. 3, p. 241. Audubon, Birds of Amer., 1842, vol. 4, pl. 237.

Open country; nests in trees.

CONN.— Accidental visitor: South Norwalk, Feb. 17, 1905 (J. A. Allen).

LANIIDAE.

327. LANIUS LUDOVICIANUS MIGRANS W. Palmer.

Migrant shrike; Butcher-bird; Cricket hawk; Grasshopper hawk; Joree; Mouse hawk.

W. Palmer, Auk, 1898, vol. 15, p. 248. "KINGSTON, ONTARIO." Egg, Capen, 1886, pl. 7, figs. 11, 12.

Orchards and open tree growth; nests in trees.

ME.— Uncommon local summer resident. (Mar. 1) Mar 24–Sept. (Nov. 17). Eggs, May 5–25.

N. H.— Uncommon summer resident in valley country; accidental in winter. Mar. 20–Sept. (Jan. 20, Concord). Eggs, April 26–May 5.

VT.— Uncommon local summer resident. Mar. 3–fall. Eggs, April 28–May 23.

MASS.— Rare migrant and in western part, rare summer resident; very rare in winter. Mar. 29–Nov. 27 (Dec. 19, Jan., Feb.). Eggs, May 10 (Williamstown).

R. I.— Rare migrant. (? Spring); Aug. 29–Sept. 2.

CONN. – Rare migrant and winter resident (Portland, Nov. 1876; Saybrook, Jan., 1879); possibly a rare summer resident (Mt. Carmel, May 24, 1873). Spring–(May 24); Aug. 29–winter.

VIREONIDAE.

328. VIREOSYLVA OLIVACEA (Linné) Bonaparte.

Red-eyed Vireo; Politician; Preacher; Red-eyed greenlet.

Muscicapa olivacea Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 327. "IN AMERICA SEPTENTRIONALI."

Vireo olivaceus (Linné). DeKay, Zool. New York, 1844, vol. 2, p. 124, pl. 36, fig. 79. Egg, Capen, 1886, pl. 7, figs. 4, 5.

Orchards and deciduous shade and forest trees; nest pensile in trees or bushes.

VIREONIDAE.

Me.— Common summer resident. (May 1) May 7–Oct. 2 (Oct. 11). Eggs, –June 29.

N. H.— Common summer resident below 3000 ft. May 8–Sept. 30.

Vt.— Common summer resident. May 9–fall.

Mass.— Common summer resident. May 4–Oct. 11 (Oct. 26; Nov. 2, 1870, Watertown). Eggs, May 25–July 20.

R. I.— Common summer resident. (April 29) May–Sept. 24 (Oct. 11). Eggs, May 28–June 6.

Conn.— Common summer resident. May 6–Oct. 2. Eggs, June 1–12.

329. Vireosylva philadelphica Cassin.

Philadelphia Vireo; Brotherly-love Vireo.

Cass., Proc. acad. nat. sci. Phila., 1851, vol. 5, p. 153, pl. 10, fig. 2. "near Philadelphia."

Vireo philadelphicus (Cass.). Dwight, Auk, 1897, vol. 14, p. 269, pl. 2. Egg, Brewster, Auk, 1905, vol. 22, pl. 11.

Open deciduous growth, especially of birch and poplar; nest pensile in trees or bushes.

Me.— Uncommon summer resident in northern part (Bucksport, Lake Umbagog). May 21–Oct. 2. Eggs, June 15.

N. H.— Uncommon summer resident north of White Mts., elsewhere rare migrant. May 26–Sept. 29.

Vt.— Rare migrant: Breadloaf, Sept. 19, 1900; Morrisville; Pittsford, Sept. 11, 1889. (Reported nesting at Brattleboro, June, 1901.) May; Sept. 11–19.

Mass.— Rare migrant. May (? 10)–17; Sept. 7–27.

R. I.— Rare migrant: Drownville, May 31, 1891; West Greenwich, May 21, 1902.

Conn.— Rare migrant: New Haven, May 19, 1888; Portland, Sept. 21, 1893, Sept. 17, 1894; (? Stratford, "*Vireo gilvus*.... under parts....mostly bright yellow").

VIREONIDAE.

330. VIREOSYLVA GILVA (Vieillot) Cassin.

Warbling Vireo.

Muscicapa gilva Vieill., Hist nat. ois. Amér. Sept., 1807, vol. 1, p. 65, pl. 34. "L'ÉTAT DE NEW-YORCK."

Vireo gilvus (Vieill.). Chapman, Handb. birds east. No. Amer., 1895, p. 329. Dwight, Auk, 1897, vol. 14, pl. 2. Egg, Capen, 1886, pl. 7, fig. 6.

Orchard and shade trees, especially elms; nest pensile in trees.

ME.— Uncommon local summer resident. May 5–Sept. 15 (Oct. 7).

N. H.— Uncommon local summer resident north to White Mt. valleys. May 1–Sept. 17.

VT.— Uncommon local summer resident. May 3–

MASS.— Common summer resident. (April 24, 1908, Auburndale) April 29–Sept. 26. Eggs, May 30–June 11.

R. I.— Common summer resident, especially of village shade trees. May 5–Sept. 25. Eggs, May 28–30.

CONN.— Common summer resident. (April 20, 1898, Jewett City) April 29–Oct. 13 (Oct. 25, 1900, Hartford). Eggs, June 2–17.

331. LANIVIREO FLAVIFRONS (Vieillot) Lawrence.

Yellow-throated Vireo.

Vireo flavifrons Vieill., Hist. nat. ois. Amér. Sept., 1807, vol. 1, p. 85, pl. 54. "ÉTATS-UNIS." Audubon, Birds of Amer., 1842, vol. 4, p. 141, pl. 238. Egg, Capen, 1886, pl. 7, figs. 7, 8.

Orchard and shade trees and edges of woods; nest pensile in trees.

ME.— Rare summer resident in southwestern counties. Mar. 12–Sept.

N. H.— Uncommon summer resident becoming rare north to White Mt. valleys. May 8–Sept. Eggs, June 14.

VIREONIDAE.

VT.— Uncommon summer resident (East Bethel).

MASS.— Common summer resident becoming local in western part. May 1–Sept. 19. Eggs, May 24–June 17.

R. I.— Common summer resident. May 1–Sept. Eggs, May 24–June 2.

CONN.— Common migrant and summer resident. May 6–Sept 17. Eggs, May 21–June 11.

332. LANIVIREO SOLITARIUS (Wilson) Allen.

Blue-headed Vireo; Solitary Vireo.

Muscicapa solitaria Wils., Amer. ornith., 1810, vol. 2, p. 143, pl. 17, fig. 6. "NEAR PHILADELPHIA."

Vireo solitarius Vieill. Audubon, Birds of Amer., 1842, vol. 4, p. 144, pl. 239. Egg, Capen, 1886, pl. 7, fig. 9.

Cool mixed woods; nest pensile in trees.

ME.— Uncommon summer resident mainly in northern part. (April 24) April 28–Oct. 6 (Nov.).

N. H.— Uncommon summer resident up to 3000 ft. April 29–Oct. 7. Eggs, May 29–late June.

VT.— Uncommon summer resident.

MASS.— Uncommon migrant and rare summer resident, becoming local in south and east. (April 11, 1908, Stoughton) April 14–Oct. 17. Eggs, May 13– June 26.

R. I.— Uncommon migrant and rare local summer resident (Washington, West Greenwich). April 23–Oct. 22. Eggs, May 15–June 15.

CONN.— Uncommon migrant and rare summer resident (Eastford, near New Haven, Norfolk, West Simsbury). Late April–Oct. 13. Eggs, May 27–June 23.

333. VIREO GRISEUS (Boddaert) A. O. U. comm.

White-eyed Vireo; White-eye.

Tanagra grisea Bodd., Tabl. d. planch. enlum. d'hist. nat., 1783, p. 45. Based on Buffon.

VIREONIDAE.

Vireo noveboracensis (Gmel.). DeKay, Zool. New York, 1844, vol. 2, p. 122, pl. 36, fig. 78. Egg, Capen, 1886, pl. 7, fig. 10.

Bushy thickets; nest pensile in bushes.

ME.— Doubtfully recorded.

N. H.— Several unsatisfactory records: Chesterfield, Manchester.

VT.— Accidental visitor: Brattleboro; ? St. Johnsbury, various records (Clark); Townshend, 1893.

MASS.— Rare local summer resident near coast and in southern valleys (Sheffield). May 2–Sept. 27 (Oct. 30). Eggs, May 22–June 18.

R. I.— Uncommon local summer resident. May 7–Sept. 18. Eggs, June 2, 3.

CONN.— Common summer resident in southern part and Connecticut valley. May 2–Sept. Eggs, June 9–12.

334. VIREO BELLII Audubon

Bell's Vireo.

Aud., Birds of Amer., 1844, vol. 7, p. 333, pl. 485. "SHORES AND PRAIRIES OF THE UPPER MISSOURI."

Bushy thickets; nest pensile in bushes or low trees.

N. H.— Accidental visitor: Durham, Nov. 19, 1897.

MNIOTILTIDAE.

335. MNIOTILTA VARIA (Linné) Vieillot.

Black and white warbler; Black and white creeper.

Chapman, Warblers No. Amer., 1907, p. 39, pl. 2, figs. 4, 5. Egg, Capen, 1886, pl. 3, figs. 2, 3.

Motacilla varia Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 333. "IN JAMAICA, DOMINICA."

Deciduous and mixed woods; nests on the ground.

MNIOTILTIDAE.

ME.— Common migrant and local summer resident. (April 27) May 3–Oct. 5. Eggs, May 25–June 21.

N. H.— Common migrant and less common summer resident at lower altitudes. April 27–Sept. 29. Eggs, June 24.

VT.— Common migrant and summer resident. May 5–fall. Eggs, June 20.

MASS.— Common migrant and less common summer resident. (April 18) April 28–Oct. 29 (Dec. 5). Eggs, May 17–June 22.

R. I.— Common migrant and less common summer resident. (April 15) May 1–Oct. 7. Eggs, May 21, 23.

CONN.— Common migrant and less common summer resident. (April 20) April 25–Oct. 10. Eggs, May 20–June 4.

336. PROTONOTARIA CITREA (Boddaert) Baird.

Prothonotary warbler; Golden swamp warbler.

Chapman, Warblers No. Amer., 1907, p. 54, pl. 3, fig. 3–4.

Motacilla citrea Bodd., Tabl. d. planch. enlum. d'hist. nat., 1783, p. 44. Description in Buffon: "LOUISIANIE."

Bushy and tree-grown swamps; nests generally in cavities of stumps or dead trees.

ME.— Accidental visitor: Calais, Oct. 30, 1862.

VT.— Doubtfully recorded.

MASS.— Accidental visitor. May 1–Sept. 15.

R. I.— Accidental visitor: Lonsdale, April 29, 1892, April 19, 1893; South Kingston, April 20 or 21, 1884.

337. HELMITHEROS VERMIVORUS (Gmelin) Bonaparte.

Worm-eating warbler.

Motacilla mervimora [= *vermivora*] Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 951. "IN PENSILVANIA."

Helinaia vermivora Lath. Audubon, Birds of Amer., 1841, vol. 2, p. 86, pl. 105. Egg, Capen, 1886, pl. 3, fig. 6.

Dry wooded slopes and ravines with undergrowth; nests on the ground.

ME., N. H.— Unsatisfactorily recorded.

VT.— Accidental visitor: St. Albans, 1891.

MASS.— Accidental visitor: Cambridge, Sept. 19, 1881; Easthampton; Salem Willows, April 14–16, 1902; Taunton, May 9, 1890.

CONN.— Rare summer resident. May 10–Aug. 22. Eggs, (New Haven, Saybrook) May 25–June 19.

338. HELMINTHOPHILA PINUS (Linné) Ridgway.

Blue-winged warbler; Blue-winged yellow warbler.

Chapman, Warblers No. Amer., 1907, p. 65, pl. 5, fig. 1–2. Egg, Capen, 1886, pl. 3, fig. 7.

Coethia pinus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 187. "IN AMERICA SEPTENTRIONALI."

Low woods and sprout land; nests on the ground.

VT.— Unsatisfactorily recorded.

MASS.— Very rare visitor. May 12–17 (? 29).

R. I.— Very rare summer resident: nest at Gloucester, May 30, 1890.

CONN.— Locally common summer resident in southern part and Connecticut valley. (May 2) May 9–late Aug. Eggs, May 20–June 20.

339. HELMINTHOPHILA CHRYSOPTERA (Linné) Ridgway.

Golden-winged warbler.

Chapman, Warblers No. Amer., 1907, p. 60, pl. 5, fig. 5–6. Egg, Capen, 1886, pl. 3, fig. 8.

Motacilla chrysoptera Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 333. "IN PENSYLVANIA."

Low bushy growths and sprout lands; nests on the ground.

N. H.— Rare in spring and early summer in southernmost part; may breed. May, June.

Vt.— Rare migrant; ? "rare summer resident" (Perkins). Spring; (Oct. 26, 1907, Woodstock).

Mass.— Uncommon summer resident, mainly in eastern part. (May 4) May 7–Sept. 1 (Oct. 8). Eggs, June 1–20.

R. I.— Rare summer resident.

Conn.— Uncommon summer resident. (May 3) May 12–Aug. 24. Eggs, May 29–June 4.

340. Helminthophila rubricapilla (Wilson) Faxon.

Nashville warbler.

Sylvia rubricapilla Wils., Amer. ornith., 1811, vol. 3, p. 120, pl. 27, fig. 3; vol. 6, p. xv. "Tennesee....not far from Nashville."

Helinaia rubricapilla (Wils.). Audubon, Birds of Amer., 1841, vol. 2, p. 103, pl. 113. Egg, Capen, 1886, pl. 3, figs. 9, 10.

Open woodland and thickets bordering swamps; nests on the ground.

Me.— Common migrant and summer resident. (April 30) May 4–Sept. 27 (Oct. 4). Eggs, June 3–July 10.

N. H.— Common migrant and summer resident up to 4500 ft. (April 30) May 4–Sept. 13. Eggs, May 25–June 8.

Vt.— Common migrant and summer resident. May 3–fall.

Mass.— Common migrant and less common summer resident, accidental in winter. (April 20, 28) May 2–Sept. 25 (Oct. 14; Jan. 1890, Swampscott). Eggs, May 21–June 21.

R. I.— Common migrant and uncommon summer resident. May 4–Sept. 17. Eggs, May 22–June 1.

Conn.— Common migrant and uncommon summer resident. (April 22, 1889, Bridgeport) May 5–Sept. Eggs, May 30–June 8.

MNIOTILTIDAE.

341. HELMINTHOPHILA CELATA (Say) Ridgway.

Orange-crowned warbler.

Chapman, Warblers No. Amer., 1907, p. 86, pl. 7, figs. 3, 4.

Sylvia celatus Say, Long's Exped. to Rocky Mts., 1823, vol. 1, p. 169. "ENGINEER CANTONMENT," IOWA.

Wooded and bushy country; nests on or near theground.

ME.— Unsatisfactorily accredited (Brunswick).

N. H.— Very rare migrant: Hollis, May 16, 1876 (*nec* Isles of Shoals).

MASS.— Very rare spring and late fall migrant; accidental in winter. May 15 (Springfield); Sept. 30–Nov. 29 (Jan. 1, 1875, Lynn).

R. I.— Very rare spring and late fall migrant: Cranston, Dec. 3, 1874; East Providence, May 9, 1891.

CONN.— Rare migrant. May 8, 1888 (East Hartford); Oct.–Nov.

342. HELMINTHOPHILA PEREGRINA (Wilson) Ridgway.

Tennessee warbler.

Chapman, Warblers No. Amer., 1907, p. 83, pl. 7, figs. 1, 2.

Sylvia peregrina Wils., Amer. ornith., 1811, vol. 3, p. 83, pl. 25, fig. 2. "BANKS OF THE CUMBERLAND RIVER, ... TENNESEE."

Dense thickets and edges of woods; nests near the ground.

ME.— Rare migrant and in northern part, a rare summer resident. May 15–26; summer. Eggs, June 4.

N. H.— Rare migrant and from White Mts. north, a rare local summer resident (Franconia, Lake Umbagog). May 20–Sept. 9.

VT.— Rare migrant and possible summer resident (Mt. Holly, two pairs, June, 1897, above 2000 ft.).

MASS.— Rare migrant and possibly a very rare summer resident (Mt. Greylock, July 15 and 16, 1888; ? Springfield, very doubtful). May 10–30; (July 15, 16); Aug.–Sept. 10.

R. I.— Rare migrant. May 18; Sept. 18.

Conn.— Rare migrant. May 19–27 (June 8); Sept. 24– (? Nov., Clark).

343. Compsothlypis americana usneae Brewster.

Northern Parula warbler; Blue yellow-backed warbler; Usnea warbler.

Brewst., Auk, 1896, vol. 13, p. 44. "Lake Umbagog, Maine." Chapman, Warblers No. Amer., 1907, p. 104, pl. 8, fig. 1–3. Egg, Capen, 1886, pl. 3, figs. 4, 5.

Forests and open tree growth; nests in pendulous masses of Usnea lichen.

Me.— Common migrant and uncommon local summer resident. May 5–Sept. 30. Eggs, May 31–June 17.

N. H.— Common migrant and less common summer resident below 3000 ft. (April 30) May 3–Oct. 1. Eggs, May 31–June 12.

Vt.— Common migrant and less common summer resident. May 2–fall.

Mass.— Common migrant and less common local summer resident. (April 25) May 1–Oct. 10 (Nov. 19, 1881, Cambridge). Eggs, May 30–July 5.

R. I.— Common migrant and uncommon local summer resident. April 30–Oct. 7. Eggs, June 2–5.

Conn.— Common migrant and uncommon local summer resident. May 2–Oct. 15 (Oct. 20). Eggs, (May 18) May 29–June 22 (Aug.).

344. Dendroica tigrina (Gmelin) Baird.

Cape May warbler.

Chapman, Handb. birds east. No. Amer., 1895, p. 352. Egg, Capen, 1886, pl. 4, fig. 15.

Motacilla tigrina Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 985. "Canada."

Sylvicola maritima Wils. Audubon, Birds of Amer., 1841, vol. 2, p. 44, pl. 85.

Northern coniferous forests in summer, and open tree growth in migration; nests in trees.

Me.— Rare migrant and in northern part a rare summer resident. May 6–24; summer Aug. 22.

N. H.— Rare migrant and north of White Mts. a rare summer resident (Franconia, June 3). May 10–Sept.

Vt.— Rare migrant and (?) summer resident (Mt. Killington, Ross).

Mass.— Rare migrant. (May 2) May 10–25; Aug. 18–Sept. 15 (Oct. 9).

R. I.— Rare migrant. May 13–20; Sept.

Conn.— Rare migrant. May 8–26; Aug. 28.

345. Dendroica aestiva (Gmelin) Baird.

Yellow warbler; Cotton wren; Garden warbler; Golden warbler; Spy-about; Summer yellow-bird; Wild canary; Yellow-belly; Yellow-bird.

Motacilla aestiva Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 996. "in Guiana, aestate in Canada."

Sylvicola aestiva (Gmel.). Audubon, Birds of Amer., 1841, vol. 2, p. 50, pl. 88. Egg, Capen, 1886, pl. 3, fig. 11–14.

Orchards, shade trees, and bushy swamps; nests in trees and bushes.

Me.— Common summer resident. (April 30) May 3–Sept. 10. Eggs, May 29–June 30 (July).

N. H.— Uncommon local summer resident of valleys and bottomlands; rare from White Mts. north. May 4–Sept. 11. Eggs, June 7.

Vt.— Common summer resident of valleys and bottomlands. May 4–Sept.

Mass.— Common migrant and summer resident. (April 23)

May 1–Sept. 30 (Nov. 28, 1891, Cambridge). Eggs, May 20–June 14.

R. I.— Common summer resident. (April 17, 29) May 1–Sept. Eggs, May 25–June 4.

Conn.— Common migrant and summer resident. (April 30) May 1–Sept. Eggs, May 20–June 30.

346. Dendroica caerulescens (Gmelin) Baird.

Black-throated blue warbler.

Chapman, Warblers No. Amer., 1907, p. 133, pl. 9, fig. 1–3. Egg, Capen, 1886, pl. 4, fig. 1.

Motacilla caerulescens Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 960. "in insula S. Dominici."

Thickets and forest undergrowth; nests near the ground.

Me.— Common migrant, and less common summer resident. May 4–late Oct. Eggs, June 10.

N. H.— Common migrant, and from White Mts. north a less common summer resident, becoming rare and local south. May 10–Oct. 10. Eggs, June 19.

Vt.— Uncommon summer resident in northern part. May 5–fall.

Mass.— Common migrant and at higher elevations of western part (Granville, Russell, and north) a less common summer resident. May 5–June 3; summer; Aug. 26–Oct. 11 (Nov. 3, 19).

R. I.— Uncommon migrant. May 14–22; fall–Oct. 17.

Conn.— Common migrant and rare summer resident (Eastford, Litchfield). (April 29) May 10–summer; Sept.–Oct. 19. Eggs, June 6–13.

347. Dendroica coronata (Linné) Gray.

Myrtle warbler; Golden-crowned warbler; Willow warbler; Yellow-rumped warbler.

Chapman, Warblers No. Amer., 1907, p. 141, pl. 10, fig. 1–3. Egg, Capen, 1886, pl. 4, fig. 2–4.

MNIOTILTIDAE.

Motacilla coronata Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 333. "Pensylvania."

Coniferous woods, and in migration, open tree growth; nests in trees.

Me.— Common migrant and south to Scarboro a less common summer resident; rare winter resident (Cape Elizabeth). April 15–Oct. 30 (winter). Eggs, May 30–June 11.

N. H.— Common migrant and summer resident, local south of White Mts. (Mar. 5, Mar. 20) April 23–May 28; summer; Sept.–Oct. 23 (Nov. 30). Eggs, May 31–June 7.

Vt.— Common migrant, and uncommon summer resident (south to Brattleboro). April 12–fall.

Mass.— Common migrant, and in higher parts of western counties an uncommon summer resident (to Mt. Wachusett); near the coast a regular local winter resident in small numbers. April 13–May 30; summer; Aug. 21–Nov. 26; winter.

R. I.— Common migrant and less common winter resident. Sept. 7–May 10.

Conn.— Common migrant and uncommon winter resident. April 8–May 20; Sept. 20–Nov. 10; winter.

348. Dendroica auduboni (Townsend) Baird.

Audubon's warbler.

Chapman, Warblers No. Amer., 1907, p. 147, pl. 10, fig. 4–6.

Sylvia auduboni Towns., Journ. acad. nat. sci. Phila., 1837, vol. 7, p. 191. "Forests of the Columbia river."

Coniferous woods; nests in trees.

Mass.— Accidental visitor: Cambridge, Nov. 15, 1876.

Conn.— Doubtfully recorded: New Haven, May 6 and 8, 1893 (A. H. Verrill).

349. Dendroica magnolia (Wilson) A. O. U. comm.

Magnolia warbler; Black and yellow warbler; Spotted warbler.

Sylvia magnolia Wilson, Amer. ornith., 1811, vol. 3, p. 63, pl.

23, fig. 2. "BANKS OF THE LITTLE MIAMI NEAR ITS JUNCTION WITH THE OHIO"; and "NOT FAR FROM FORT ADAMS ON THE MISSISSIPPI."

Dendroica maculosa (Gmel.). Chapman, Warblers No. Amer., 1907, p. 121, pl. 11, fig. 1–3. Egg, Capen, 1886, pl. 4, figs. 12, 14.

Coniferous and mixed thickets near streams in summer, woodlands generally in migration; nests in low trees.

ME.— Common migrant and in northern part a less common summer resident. May 6–Sept. 26. Eggs, May 30–June 16.

N. H.— Common migrant; uncommon local summer resident south of White Mts., commoner north, to 3000 ft. May 9–Oct. 3. Eggs, May 24–June 20.

VT.— Common migrant, less common local summer resident. May 14–fall.

MASS.— Common migrant and in northwestern counties a less common local summer resident. (May 4) May 7–30; summer; Aug. 25–Oct. 9. Eggs, June 15.

R. I.— Common migrant. May 14–25; Sept.–Oct. 8.

CONN.— Common migrant. May 9–June 1; Sept. 15–Oct. 1.

350. DENDROICA CERULEA (Wilson) Baird.

Cerulean warbler.

Chapman, Warblers No. Amer., 1907, p. 170, pl. 9, fig. 4–6.

Sylvia caerulea Wils., Amer. ornith., 1810, vol. 2, p. 141, pl. 17, fig. 5. "PENNSYLVANIA."

High tree tops; nests in trees.

MASS.— Accidental visitor: Cohasset, 1874.

R. I.— Accidental visitor: Lonsdale, May 14, 1893; Pawtucket, May 22, 1879; Providence, May 22, 1878.

CONN.— Accidental visitor: Seymour, May 10, 1888; Stratford, April, 1841; Suffield, June 12, 1875.

351. Dendroica pensylvanica (Linné) Baird.

Chestnut-sided warbler.

Chapman, Warblers No. Amer., 1907, p. 187, pl. 12, fig. 4–6. Egg, Capen, 1886, pl. 4, figs. 11, 12.

Motacilla pensylvanica Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 333. "in Pensylvania."

Brushy thickets, clearings, and sproutlands; nests in low bushes.

Me.— Common migrant and summer resident. May 6–Sept. 8. Eggs, June 4–July 4.

N. H.— Common migrant and summer resident, mainly at lower elevations. May 6–Sept. 25. Eggs, May 26–June 6.

Vt.— Common migrant and summer resident. Eggs, June 6.

Mass.— Common migrant and summer resident. (April 28, 1908, Stoughton) May 2–Sept. 20. Eggs, May 26–June 17.

R. I.— Common migrant and summer resident. May 1–Sept. 7. Eggs, May 22–June 4.

Conn.— Common migrant and summer resident. May 4–Sept. Eggs, May 23–June 15.

352. Dendroica striata (Forster) Baird.

Black-poll warbler; Autumnal warbler.

Chapman, Warblers No. Amer., 1907, p. 196, pl. 2, fig. 1–3. Egg, Capen, 1886, pl. 4, figs. 7, 8.

Muscicapa striata Forst., Phil. trans. roy. soc. London, 1772, vol. 62, pp. 406, 428. "Severn River. . . . ad Sinum Hudsonis."

Spruce and fir forests in summer, and tree growth generally in migrations; nests in low trees.

Me.— Common migrant, and in northern part, a common summer resident. May 9–June 9; summer–Oct. 10. Eggs, June 15–early July.

N. H.— Common migrant and from White Mts. north, a com-

mon summer resident mainly above 3000 ft. May 8–Oct. 10. Eggs, June 28.

Vt.— Common migrant, and on higher mountains an uncommon summer resident (Killington Peak, Mt. Mansfield, Stratton Mt.).

Mass.— Common migrant; may breed rarely (young at North Adams, August). (April 15) May 8–June 14; (Aug. 17, 1886, Concord) Sept. 1–Nov. 7.

R. I.— Common migrant. May 10–31 (June 17); Sept. 3–Oct. 23.

Conn.— Common migrant. May 11–June 5; Sept. 10–Oct. 26.

353. Dendroica blackburniae (Gmelin) Baird.

Blackburnian warbler; Hemlock warbler.

Chapman, Warblers No. Amer., 1907, p. 175, pl. 3, figs. 1, 2. Egg, Capen, 1886, pl. 4, figs. 5, 6.

Motacilla blackburniae Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 977. "in Noveboraco."

High coniferous and mixed woods, especially hemlock and white pine; nests in tree tops.

Me.— Rare migrant in southern counties, elsewhere an uncommon local summer resident. (May 4) May 6–Sept. 17. Eggs, June 5–15.

N. H.— Uncommon local summer resident south of White Mts., thence commoner up to 3000 ft. (May 3) May 8–Sept. 10. Eggs, June 4–15.

Vt.— Uncommon local summer resident. (May 2) May 7–summer.

Mass.— Rare migrant and summer resident in eastern, commoner in northwestern part. (May 2) May 6–30; summer; Sept. 7–23 (Oct. 10). Eggs, June 5–26.

R. I.— Uncommon migrant. May 14; Sept.–Oct.

Conn.— Common migrant and rare summer resident. May 5–27; summer; Sept. 15–Oct. 3 (Nov. 8, 1907, New Haven).

MNIOTILTIDAE.

354. Dendroica castanea (Wilson) Baird.

Bay-breasted warbler.

Chapman, Warblers No. Amer., 1907, p. 192, pl. 12, fig. 1–3. Egg, Capen, 1886, pl. 4, figs. 9, 10.

Sylvia castanea Wils., Amer. ornith., 1810, vol. 2, p. 97, pl. 14, fig. 4. "Pennsylvania."

Spruce and fir forests in summer, tree tops generally in migration; nests in trees.

Me.— Rare migrant and in northern part a rare summer resident. (May 8) May 14–Aug. Eggs, June 8–15.

N. H.— Uncommon migrant and from White Mts. north an uncommon summer resident from 2–4000 ft. May 14–Sept. Eggs, June 3.

Vt.— Rare migrant.

Mass. Usually rare, but sometimes common migrant. May 8–May 28 (June 19; July 2, Springfield); Aug. 23–Oct. 8.

R. I.— Uncommon migrant. May 9– ; Sept.

Conn.— Migrant, irregularly rare or common. May 15–30; Sept. 30–Oct. 17.

355. Dendroica dominica (Linné) Baird.

Yellow-throated warbler.

Chapman, Warblers No. Amer., 1907, p. 180, pl. 13, figs. 1, 2.

Motacilla dominica Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 334. "Jamaica, Dominica."

Tree growth bordering streams or bayous; nests in trees.

Vt.— Recorded from Lunenburg, 1878.

Mass.— Accidental visitor: Dedham, Nov. 4, 1866; Springfield, May, 1892.

Conn.— Accidental visitor: Connecticut valley, "several"; New Haven.

MNIOTILTIDAE.

356. Dendroica virens (Gmelin) Baird.

Black-throated green warbler.

Chapman, Warblers No. Amer., 1907, p. 157, pl. 14, fig. 1–3. Egg, Capen, 1886, pl. 3, fig. 15.

Motacilla virens Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 985. "Pensilvania."

Forest trees, particularly white pines; nests in coniferous trees (once "on the ground," Brewster).

Me.— Common migrant and summer resident. April 28–Oct. 13. Eggs, May 30–July 1.

N. H.— Common migrant and summer resident mainly below 3000 ft. (April 26) May 1–Oct. 25. Eggs, June 2.

Vt.— Common migrant and summer resident. May 2–fall.

Mass.— Common migrant and summer resident. (April 20) May 1–Oct. 19 (Nov. 3). Eggs, May 30–June 18.

R. I.— Common migrant and summer resident. (April 25) May 1–Oct. 13. Eggs, June 10.

Conn.— Common migrant and uncommon local summer resident. (April 27) May 1–23; summer; Sept. 15–Oct. 20. Eggs, May 21–June 18.

357. Dendroica vigorsii (Audubon) Stejneger.

Pine warbler; Pine-creeping warbler.

Sylvia vigorsii Aud., Ornith. biogr., 1832, vol. 1, p. 153, pl. 30. "a small island of Perkioming Creek, ... Pennsylvania."

Sylvicola pinus Lath. Audubon, Birds of Amer., 1841, vol. 2, p. 37, pl. 82. Egg, Capen, 1886, pl. 5, figs. 2, 3.

Coniferous woods, especially pitch-pine groves; nests in trees.

Me.— Common migrant and uncommon local summer resident mainly in southern counties. April 5–Oct. 21. Eggs, June–July 6.

N. H.— Uncommon local summer resident north to White Mts. April 6–Sept. 30.

VT.— Uncommon local summer resident in southern part. April 17–fall.

MASS.—Common migrant and summer resident; accidental in winter. (Mar. 29) April 1–Nov. 25 (winter). Eggs, May 8–June 16; July (2d brood).

R. I.—Common summer resident of pitch-pine groves. April 9–Oct. 29 (Nov. 15). Eggs, May 25.

CONN.—Common migrant and summer resident. April 14–Sept. 29.

358. DENDROICA PALMARUM (Gmelin) Baird.

Palm warbler; Redpoll warbler.

Chapman, Warblers No. Amer., 1907, p. 213, pl. 16, figs. 4, 5.

Motacilla palmarum Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 951. "IN INSULA S. DOMINICI."

Open tree or bushy growth, and edges of fields; nests on the ground.

N. H.— Uncommon fall migrant (a doubtful spring record, Manchester, May 9, 1900). Sept. 7–16.

VT.— Rare fall migrant.

MASS.— Rare fall migrant. Sept. 7–Oct. 28 (Dec. 6, 1902, Belmont).

R. I.— Rare fall migrant: Westerly, Sept. 21, 1896.

CONN.— Rare fall migrant; once recorded in winter (Jan. 1880, at New Haven). Sept. 19–Oct. 10 (Jan.).

359. DENDROICA PALMARUM HYPOCHRYSEA Ridgway.

Yellow palm warbler; Twitch-tail warbler; Yellow redpoll warbler.

Ridgw., Bull. Nuttall ornith. club, 1876, vol. 1, p. 85. "CAMBRIDGE, MASS."

Sylvicola petechia Lath. Audubon, Birds of Amer., 1841, vol. 2, p. 55, pl. 90.

Swamps, edges of woods, or open country; nests on or near the ground.

Me.— Common spring and uncommon fall migrant and local summer resident. April 11–May 20; summer; Sept. 17–Oct. 20 (Oct. 27, Nov. 2). Eggs, May 27–June 26.

N. H.— Common spring and uncommon fall migrant. April 13–May 11; Sept. 16–Oct. 9.

Vt.— Uncommon migrant.

Mass.— Common spring and uncommon fall migrant; said to have wintered. (Mar. 28, 1908, Hyde Park; April 5) April 13–May 21; Sept. 5–Oct. 26.

R. I.— Common spring and uncommon fall migrant. April 5–22; Sept. 15–26.

Conn.— Common spring and uncommon fall migrant. April 9–May 5; Oct. 18–Nov. 4.

360. Dendroica discolor (Vieillot) Baird.

Prairie warbler.

Chapman, Handb. birds east. No. Amer., 1895, p. 364. Egg, Capen, 1886, pl. 5, fig. 1.

Sylvia discolor Vieill., Hist. nat. ois. Amér. Sept., 1807, vol. 2, p. 37, pl. 98. "États-Unis et les grands îles Antilles."

Sylvicola discolor (Vieill.). Audubon, Birds of Amer., 1841, vol. 2, p. 68, pl. 97.

Dry bush-grown fields and sproutlands; nests in bushes.

N. H.— Rare local summer resident in southern part (Hollis, Manchester).

Vt.— Accidental visitor: Uxbridge, Dec. 4, 1884.

Mass.— Uncommon summer resident, mainly near coast; accidental in winter (South Yarmouth, Jan. 2, 1909). May 2–Sept. 25 (Jan. 2). Eggs, May 28–June 18.

R. I.— Common local summer resident. May 4–Sept. (Dec. 4, 1884, Providence). Eggs, May 27–June 14.

CONN.— Uncommon summer resident. (April 27) May 1–Sept. 15. Eggs, May 27–June 25.

361. SEIURUS AUROCAPILLUS (Linné) Swainson.

Oven-bird; Golden-crowned thrush.

Chapman, Handb. birds east. No. Amer., 1895, p. 365; Allen, Auk, 1894, vol. 11, pl. 2. Egg, Capen, 1886, pl. 5, figs. 4, 5.

Motacilla aurocapilla Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 334. "IN PENSYLVANIA."

Forests and groves; nests on the ground.

ME.— Common migrant and summer resident. (April 23) May 5–Sept. 28. Eggs, May 30–June 10 (July 29).

N. H.— Common migrant and summer resident below 3000 ft. May 3–Oct. 2. Eggs, June 2–July 5.

VT.— Common migrant and summer resident. May 5–fall. Eggs, June 7.

MASS.— Common migrant and summer resident. (April 30) May 2–Sept. 27 (Dec. 30, 1881, Watertown). Eggs, May 17–June 16 (July 8).

R. I.— Common migrant and summer resident. May 2–Sept. 28. Eggs, May 19–30.

CONN.— Common migrant and summer resident (April 26) May 3–Sept. Eggs, May 20–July 10.

362. SEIURUS NOVEBORACENSIS (Gmelin) Bonaparte.

Water-thrush; New York Accentor; Northern water-thrush; Wagtail warbler; Water wagtail.

Ridgway, Bull. 50, U. S. nat. mus., 1902, pt. 2, p. 642. Egg, Capen, 1886, pl. 5, figs. 6, 7.

Motacilla noveboracensis Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 958. "IN LOUISIANA, & NOVEBORACI SEPIBUS."

Turdus aquaticus Wils. Audubon, Ornith. biogr., 1839, vol. 5, p. 284, pl. 433, fig. 7.

MNIOTILTIDAE.

Swampy woods and borders of streams; nests on the ground or among tree roots.

ME.— Common migrant and in northern part a less common local summer resident. (April 28) May 6–Sept. 25. Eggs, May 28–June 23.

N. H.— Common migrant and less common summer resident, local at lower elevations south of White Mts. (April 30) May 3–Sept. 26.

VT.— Common migrant, and mainly in northern part, a less common summer resident.

MASS.— Common migrant and rare local summer resident (near Boston, Lancaster). (April 25) May 2–June 5; summer; Aug. 1–Oct. 16. Eggs, May 21.

R. I.— Common migrant and rare local summer resident (Washington Co.). May 7–(summer); Aug. 12–Sept. 15. Eggs, May 19, 20.

CONN.— Common migrant. (May 1) May 5–27; Aug.–Oct. 18.

363. SEIURUS NOVEBORACENSIS NOTABILIS (Ridgway) Ridgway.

Grinnell's water-thrush.

Siurus naevius notabilis Ridgw., Proc. U. S. nat. mus., 1880, vol. 3, p. 12. "BLACK HILLS, WYOMING."

Vicinity of streams; nests on or near the ground.

CONN.— Rare migrant: East Haven, Sept. 21, 1904; Hamden, Sept. 7, 1904; Orange, May 20, 1905 (Bishop).

364. SEIURUS MOTACILLA (Vieillot) Bonaparte.

Louisiana water-thrush; Large-billed water-thrush.

Ridgway, Bull. 50, U. S. nat. mus., 1902, pt. 2, p. 639.

Turdus motacilla Vieill., Hist. nat. ois. Amér. Sept., 1807, vol. 2, p. 9, pl. 65. "KENTUCKY."

Turdus ludovicianus Audubon, Ornith. biogr., 1831, vol. 1, p. 99, pl. 19. Egg, Capen, 1886, pl. 5, fig. 8.

Wooded borders of streams; nests on the ground or among tree roots.

ME.— Accidental visitor: Norway, May, 1865 (*nec* Waterville, 1865).

N. H.— Doubtfully recorded (Dublin).

VT.— Doubtfully recorded (Brattleboro, "fall").

MASS.— Rare visitor and summer resident (Berkshire Co. and Connecticut valley). April 13–July 28.

R. I.— Rare summer resident. May 2. Eggs, May 15–28.

CONN.— Uncommon summer resident in southern part. (Feb. 15, 1882, ? Saybrook) April 13–July. Eggs, May 6–June 10.

365. OPORORNIS FORMOSA (Wilson) Baird.

Kentucky warbler.

Chapman, Warblers No. Amer., 1907, p. 235, pl. 18, figs. 1, 2.

Sylvia formosa Wils., Amer. ornith., 1811, vol. 3, p. 85, pl. 25, fig. 3. "KENTUCKY AND TENNESSEE."

Undergrowth of swampy woods; nests on or near the ground.

VT.— Accidental visitor: Lunenburg, May 30, 1905; also a former doubtful record (Taftsville, May 19, 1884).

MASS.— Accidental visitor: Wellesley, May 14, 1907; also doubtfully recorded from Lynn.

R. I.— Accidental visitor: Newport, spring of 1890.

CONN.— Rare summer visitor (Lyme; Suffield, Aug. 16, 1876; West Stratford, May 30, 1888) and summer resident (Greenwich, with nestlings, July 10, 1892).

366. OPORORNIS AGILIS (Wilson) Baird.

Connecticut warbler.

Chapman, Warblers No. Amer., 1907, p. 241, pl. 18, figs. 3, 4.

Sylvia agilis Wils., Amer. ornith., 1812, vol. 5, p. 64, pl. 39, fig. 4. "CONNECTICUT."

Tamarack swamps, and in migration, damp woods and thickets; nests on the ground.

Me.— Rare fall migrant. Sept. 5–20 (*nec* Aug. 30, 1878, Cape Elizabeth).

N. H.— Rare fall migrant. Sept. 6–Oct. 11.

Vt.— Rare (? spring and) fall migrant. (? Brattleboro, May; ? Rutland, April 24, 1879); Sept. 20–30.

Mass.— Uncommon fall migrant (? accidental in spring). (May 1890, West Newton, *fide* Maynard); Sept. 7–Oct. 9.

R. I.— Uncommon fall migrant. Sept. 24–Oct. 2 (Nov. 12).

Conn.— Accidental spring and uncommon fall migrant. (Spring, Saybrook; *nec* New Haven); Sept. 15–Oct. 10.

367. Oporornis philadelphia (Wilson) Ridgway.

Mourning warbler.

Sylvia philadelphia Wils., Amer. ornith., 1810, vol. 2, p. 101, pl. 14, fig. 6. "within a few miles of Philadelphia."

Trichas philadelphia (Wils.). De Kay, Zool. New York, 1844, vol. 2, p. 81, pl. 54, fig. 122. Egg, Capen, 1886, pl. 5, figs. 12, 13.

Tangles of bushes, vines, and briers; nests on or near the ground.

Me.— Uncommon migrant, and in northern part an uncommon summer resident. (May 16) May 24–fall. Eggs, June 10–16.

N. H.— Uncommon migrant and from White Mts. north an uncommon summer resident. May 19–Sept. 13. Eggs, June 8.

Vt.— Uncommon migrant and summer resident south to Londonderry. May 20–Sept. 20.

Mass.— Rare migrant and in Berkshire Co., a rare summer resident. (May 14) May 21–June 13; summer; Sept. 12–30.

R. I.— Rare migrant. May 21–June 5; Sept. 4.

Conn.— Rare migrant. May 12–27; fall.

MNIOTILTIDAE.

368. GEOTHLYPIS TRICHAS (Linné) Cabanis.

Maryland yellowthroat; Black-masked ground warbler; Yellowthroat.

Turdus trichas Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 293. "IN AMERICA SEPTENTRIONALI."

Geothlypis trichas brachidactyla (Swains.). Chapman, Warblers No. Amer., 1907, p. 251, pl. 20, fig. 3–5. Egg, Capen, 1886, pl. 5, fig. 9–11.

Weed patches and thickets near water; nests on or near the ground.

ME.— Common migrant and summer resident. May 6–Oct. 13 (Oct. 22). Eggs, May 28–June 12.

N. H.— Common migrant and summer resident at lower elevations. May 6–Oct. 7. Eggs, June 3–21.

VT.— Common migrant and summer resident. Eggs, June 2.

MASS.— Common migrant and summer resident; accidental in winter. (April 30) May 2–Oct. 21 (winter). Eggs, May 24–June 17.

R. I.— Common migrant and summer resident. (April 22)–Oct. 17. Eggs, May 25–June 5.

CONN.— Common migrant and summer resident. (April 29) May 4–Nov. 1. Eggs, May 22–June 18.

369. ICTERIA VIRENS (Linné) Baird.

Yellow-breasted chat; Ghost-bird (Indian); Yellow chat.

Audubon, Birds of Amer., 1842, vol. 4, p. 162, pl. 244. Egg, Capen, 1886, pl. 5, figs. 14, 15.

Turdus virens Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 171. "AMERICA."

Bushy thickets; nests in low bushes.

ME.— Accidental visitor (five instances). June 6–Oct. 5.

N. H.— Doubtfully recorded.

Vt.— Very rare summer resident in extreme south: Pownall, June 16, 1896.

Mass.— Rare local summer resident near coast and in western valleys. May 10–Sept. 10 (Oct. 26, 1907, Lynnfield). Eggs, May 18–June 18.

R. I.— Locally common summer resident in southern part. May 3–Aug. 5. Eggs, May 31–June 13.

Conn.— Locally common summer resident. May 5–Aug. Eggs, May 22–July 7.

370. Wilsonia citrina (Boddaert) A. O. U. comm.

Hooded warbler.

Muscicapa citrina Bodd., Tabl. d. planch. enlum. d'hist. nat., 1783, p. 41. Based on Buffon.

Wilsonia mitrata (Gmel.). Chapman, Warblers No. Amer., 1907, p. 269, pl. 21, fig. 1–3. Egg, Capen, 1886, pl. 6, fig. 1.

Undergrowth of woods; nests in bushes.

Me.— Accidental visitor: Falmouth, Sept. 10, 1904.

Vt.— Doubtfully recorded.

Mass.— Rare visitor; possibly breeding in southwestern valleys. May 8–Oct. 15 (June 25, 1879, Brookline; June 25, 1888, Provincetown).

R. I.— Accidental visitor: Kingston.

Conn.— Uncommon summer resident of laurel undergrowth. May 2–Sept. Eggs, May 25–June 24.

371. Wilsonia pusilla (Wilson) Bonaparte.

Wilson's warbler; Black-capped flycatching warbler; Wilson's blackcap.

Chapman, Warblers No. Amer., 1907, p. 274, pl. 22, figs. 1, 2. Egg, Capen, 1886, pl. 6, fig. 2.

MNIOTILTIDAE.

Muscicapa pusilla Wils., Amer. ornith., 1811, vol. 3, p. 103, pl. 26, fig. 4. "SOUTHERN STATES, AND . . . NEW JERSEY AND DELAWARE."

Bushy growth near streams or in swamps; nests on the ground.

ME.— Uncommon migrant and summer resident (south to Pittsfield). May 7–June 5; summer; Aug. 18–Sept. 11 (Oct.). Eggs, May 31–June 19.

N. H.— Uncommon migrant and north of White Mts. a rare local summer resident (Lancaster). May 9–29; (summer); Aug. 15–Oct. 3. Eggs, June 6.

VT.— Uncommon migrant; (?summer). May 17; Aug. 24.

MASS.— Uncommon migrant. May 7–30 (June 1); Aug. 23–Sept. 27 (Nov. 20, 1898, Belmont).

R. I.— Uncommon migrant. May 15–22; Sept. (Nov. 30).

CONN.— Uncommon migrant. May 10–25; Sept. 27.

372. WILSONIA CANADENSIS (Linné) Coues.

Canadian warbler; Canada flycatcher.

Chapman, Warblers No. Amer., 1907, p. 280, pl. 22, fig. 3–5. Egg, Capen, 1886, pl. 6, figs. 3, 4.

Muscicapa canadensis Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 327. "CANADA."

Wet woods or thickets along streams; nests on or near the ground.

ME.— Common migrant and summer resident. (April 25, Bangor; May 7) May 10–Sept. 12. Eggs, May 30.

N. H.— Common migrant and less common local summer resident below 3000 ft. May 13–Sept. 13. Eggs, June 9–13.

VT.— Common migrant and less common local summer resident. May 15–fall.

MASS.— Common migrant and less common summer resident mainly in western part. May 9–Sept. 29. Eggs, June 9–26.

R. I.— Common migrant and uncommon local summer resident. May 11–fall.

MNIOTILTIDAE.

Conn.— Common migrant and rare local summer resident (Portland). (May 6) May 12–fall. Eggs, May 30.

373. Setophaga ruticilla (Linné) Swainson.

American redstart.

Chapman, Warblers No. Amer., 1907, p. 287, pl. 23, fig. 1–3. Egg, Capen, 1886, pl. 6, fig. 5.

Motacilla ruticilla Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 186. "America."

Orchards, shade and forest trees; nests in trees.

Me.— Common migrant and summer resident. May 4–Oct. 1 (Oct. 13). Eggs, June 2–30.

N. H.— Common migrant and summer resident below 3000 ft. May 4–Oct. 5. Eggs, May 30–June 13.

Vt.— Common migrant and summer resident. May 8–fall.

Mass.— Common migrant and summer resident. (April 13, 23, 30) May 4–Oct. 12 (Nov. 1, 1908, Arnold arboretum). Eggs, May 29–June 21.

R. I.— Common migrant and summer resident. May 1–Sept. 8. Eggs, June 1–13.

Conn.— Common migrant and summer resident. May 3–Oct. 16 (Oct. 26). Eggs, May 20–June 27.

MOTACILLIDAE.

374. Anthus rubescens (Tunstall) A. O. U. comm.

American pipit; Brown lark; Titlark; Wagtail.

Alauda rubescens Tunstall, Ornith. Britannica, 1771, p. 2. No locality; based on Red lark from London and North America (*fide* Oberholser).

Anthus pensilvanicus (Lath.). Ridgway, Bull. 50, U. S. nat. mus., 1904, pt. 3, p. 12.

Anthus pipiens Audubon, Ornith. biogr., 1832, vol. 1, pl. 80.

MOTACILLIDAE.

Barren grounds, fields and sea coasts; nests on the ground.

ME.— Rare spring and common fall migrant. May 2–18 (June 1, 1907, Lubec); Sept. 13–Oct. 25 (Dec. 13, 1901, Seguin Id.).

N. H.— Rare spring and common fall migrant. April 3–May 10; Sept. 15–Nov.

VT.— Rare spring and uncommon fall migrant.

MASS.— Uncommon spring and common fall migrant; accidental in winter (Boston Harbor, Feb. 25, 1882; Newburyport, Jan. 4, 1878). April 18–May 20 (June 8); (Aug. 29, 1888, Monomoy Id.) Sept. 10–Nov. 24 (winter).

R. I.— Rare spring and common fall migrant. Mar. 29–May 15; Sept. 16–Nov. 28.

CONN.— Rare spring and common fall migrant. April–May; Sept. 15–Nov. 14 (Dec. 25, 1908, South Norwalk).

MIMIDAE.

375. MIMUS POLYGLOTTOS (Linné) Bonaparte.

Mockingbird.

Chapman, Handb. birds east. No. Amer., 1895, p. 377; Bird-life, 1898, pl. 66. Egg, Capen, 1886, pl. 1, fig. 8–10.

Turdus polyglottos Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 169. "VIRGINIA."

Thickets and dense tree clumps; nests in bushes or trees.

ME.— Occasional visitor at all seasons or escape; said to have bred at Leeds about 1885.

N. H.— Accidental visitor or escape: Hampton; Milford.

VT.— Accidental visitor or escape; pair nested at Lunenburg, 1884.

MASS.— Occasional visitor at all seasons or escape; rare summer resident (Arlington, Groton, Marshfield, ? Provincetown, Springfield). Eggs, June 13–20.

R. I.— Occasional visitor at all seasons (or escape).

MIMIDAE.

Conn.— Rare summer resident (more frequent formerly); occasional visitor (or escape) at all seasons. Eggs, June 20 (Jewett City).

376. Dumetella carolinensis (Linné) A. O. U. comm.

Catbird; Pussy.

Muscicapa carolinensis Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 328. "Carolina."

Orpheus carolinensis (Linné). Audubon, Birds of Amer., 1841, vol. 2, p. 195, pl. 140. Egg, Capen, 1886, pl. 1, fig. 11.

Bushy thickets near water; nests in bushes or among vines.

Me.— Common summer resident, mainly of southern counties. May 17–Oct. 4. Eggs, June 2–17; July (2d brood).

N. H.— Common summer resident north to White Mt. valleys; accidental in early winter (Concord, Dec. 3, 1901; Wilton, Dec. 25, 1904). May 6–Oct. 14 (Dec. 25). Eggs, June 6–July 28 (? 2d brood).

Vt.— Common summer resident.

Mass.— Common summer resident; accidental in winter. (April 13, 1908, Westwood) April 29–Oct. 16 (Dec.; winter 1908–09, Forest Hills). Eggs, May 22–June 20.

R. I.— Common summer and casual winter resident. (April 24)–Oct. 13 (Dec. 28–Mar. 4, Mar. 19). Eggs, May 25–June 10.

Conn.— Common summer resident. May 3–Nov. 4. Eggs, May 17–23; July 26 (2d brood).

377. Toxostoma rufum (Linné) Cabanis.

Brown thrasher; Brown thrush; Mavis; Mocking thrush; Planting-bird; Song thrush; Thrasher.

Turdus rufus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 169. "in America septentrionali & meridionali."

Orpheus rufus (Linné). Audubon. Birds of Amer., 1841, vol. 3, p. 9, pl. 141. Egg, Capen, 1886, pl. 1, figs. 12, 13.

MIMIDAE.

Thickets and sproutlands; nests in bushes or rarely on the ground.

ME.— Common summer resident in southwestern counties. (? April 8) April 28–Oct. 14.

N. H.— Uncommon summer resident north to White Mt. valleys. (April 16)–Oct. 10.

VT.— Uncommon summer resident at lower elevations.

MASS.— Common summer and accidental winter resident (Arlington). (April 16) April 20–Oct. 26 (Nov. 4; winter). Eggs, May 10–June 21.

R. I.— Common summer resident; casual in winter. (April 14)–Oct. 13 (Jan. 30). Eggs, May 19–June 4.

CONN.— Common summer resident. April 22–Oct. 2.

TROGLODYTIDAE.

378. THRYOTHORUS LUDOVICIANUS (Latham) Bonaparte.

Carolina wren; Great Carolina wren; Mocking wren.

Sylvia ludoviciana Lath., Index ornith., 1790, vol. 2, p. 548. "LOUISIANA."

Troglodytes ludovicianus Bonap. Audubon, Birds of Amer., 1841, vol. 2, p. 116, pl. 117. Egg, Capen, 1886, pl. 2, fig. 11.

Dense undergrowth and tangles; nests in cavities of trees or crevices of buildings.

ME.— Accidental visitor (Falmouth, Oct. 3, 1908; Waterville) and accidental summer resident (Norway Lake, eggs, June, 1883, *fide* Knight).

N. H.— Accidental visitor: Alstead, July 6, 1903; Rye Beach, Aug. 7, 1880; Webster, about 1900.

VT.— Doubtfully recorded.

MASS.— Occasional visitor at all seasons and very rare summer resident (Naushon Id., July, 1901).

PASSERES. OSCINES.

TROGLODYTIDAE.

R. I.— Occasional visitor in summer and fall, and rare summer resident (at Middletown). April 9–Nov. 28. Eggs, April 15.

CONN.— Occasional visitor at all seasons and rare resident (near Bridgeport, Chester, South Norwalk). Eggs, July 16.

379. THRYOMANES BEWICKII (Audubon) Ridgway.

Bewick's wren.

Ridgway, Bull. 50, U. S. nat. mus., 1904, pt. 3, p. 552.

Troglodytes bewickii Aud., Ornith. biogr., 1831, vol. 1, p. 96, pl. 18. "ABOUT FIVE MILES FROM ST. FRANCISVILLE, ... LOUISIANA."

Brush piles, orchards, and vicinity of outbuildings; nests in cavities of trees or buildings.

ME.— Doubtfully recorded (Seguin Id., Oct. 6).

N. H.— Accidental visitor: Alton, April 25, 1890.

380. TROGLODYTES AEDON Vieillot.

House wren.

Vieill., Hist. nat. ois. Amér. Sept., 1807, vol. 2, p. 52, pl. 107. "CANADA, ... NOUVELLE-ÉCOSSE." Audubon, Birds of Amer., 1841, vol. 2, p. 125, pl. 120. Egg, Capen, 1886, pl. 2, figs. 12, 13.

Brush piles, orchards, and vicinity of outbuildings; nests in hollow limbs, bird boxes, or any convenient crevice.

ME.— Uncommon local summer resident (to Caribou). May 8–Aug.

N. H.— Uncommon summer resident becoming rare among White Mt. valleys. May 18–Sept. 24.

VT.— Uncommon summer resident. May 11–fall.

MASS.— Locally common summer resident. (April 24) May 1–Oct. 30. Eggs, May 25–June 5.

R. I.— Locally common summer resident; formerly more common. April 26–Sept. Eggs, May 21–27.

CONN.— Common summer resident. April 25–Oct. 30.

PASSERES. OSCINES.

TROGLODYTIDAE.

381. NANNUS HIEMALIS (Vieillot) A. O. U. comm.

Winter wren.

Troglodytes hiemalis Vieill., Nouv. dict. d'hist. nat., 1819, vol. 34, p. 514. "NOUVELLE-ÉCOSSE ET DANS L'ÉTAT DE NEW YORK." Audubon, Birds of Amer., 1841, vol. 2, p. 128, pl. 121. Egg, Capen, 1886, pl. 2, fig. 14.

Damp woods or thickets near water, and in migration, tangles, brush heaps, and brier patches; nests in crevices of upturned roots.

ME.— Common migrant and in northern part a common summer resident; very rare winter resident (Bangor). (April 1) April 9–Nov. 17 (winter). Eggs, May 20–June 3; Aug. 8 (2d brood).

N. H.— Common migrant and less common summer resident, local south of White Mts.; rare winter resident in southeast part. April 5–Nov. 15 (winter). Eggs, May 20–July 23 (2d brood).

VT.— Uncommon migrant, less common summer resident in mountainous parts south to Londonderry; may winter. April 7–Nov. 24 (Dec. 30, Jan. 1). Eggs, June 4.

MASS.— Uncommon migrant, less common summer resident (Berkshire Co., and locally east, Lynn, Winchendon); rare winter resident near coast. April 4–29; summer; Sept. 2–Nov. 25; winter.

R. I.— Uncommon migrant and rare winter resident; rare local summer resident (Washington Co., nest with young, May 24, 1908). April; (summer); Sept.–Nov. 28; winter.

CONN.— Uncommon migrant and less common winter resident. Oct. 2–April.

382. CISTOTHORUS STELLARIS (Lichtenstein) Cabanis.

Short-billed marsh wren.

Troglodytes stellaris Licht., in Naumann's Vögel Deutschl., 1823, vol. 3, tab. ad p. 724. "CAROLINA."

PASSERES. OSCINES.

TROGLODYTIDAE.

Troglodytes brevirostris Nutt. Audubon, Birds of Amer., 1841, vol. 2, p. 138, pl. 124. Egg, Capen, 1886, pl. 3, fig. 1.

Wet grassy meadows; nest usually built among tall grass stems near the ground.

Me.— Rare local summer resident (Bangor, Glenburn). May 4–Oct. 10.

N. H.— Rare local summer resident in southern part; rare visitor in White Mt. region.

Mass.— Very local summer resident, sometimes common. May 6–Oct. 9. Eggs, May 25–June 18; July 7 (? 2d brood).

R. I.— Rare local summer resident (Newport). Eggs, June 6.

Conn.— Rare local summer resident. Spring–Sept. 17.

383. Telmatodytes palustris (Wilson) Henry.

Long-billed marsh wren.

Ridgway, Bull. 50, U. S. nat. mus., 1904, pt. 3, p. 489. Egg, Capen, 1886, pl. 2, fig. 15.

Certhia palustris Wils., Amer. ornith., 1810, vol. 2, p. 58, pl. 12, fig. 4. "Pennsylvania....along the tide water of our rivers."

Cat-tail swamps; nests among the flags.

Vt.— Rare visitor: Brattleboro, May, 1902; Middlebury; Rutland, May 27, 1907.

Mass.— Common local summer resident in western valleys and coastwise (Essex Co.); rare winter resident (Fresh Pond). (May 2) May 15–Nov. 30 (winter). Eggs, June 5–29 (Aug. 1).

R. I.— Common local summer resident. May–Oct. 6. Eggs, May 31–June 16.

Conn.— Common summer and rare winter resident. May 5– (winter). Eggs, June 7–July 28

CERTHIIDAE.

384. CERTHIA FAMILIARIS AMERICANA (Bonaparte) Ridgway.

Brown creeper; Tree creeper.

Certhia americana Bonap., Geogr. and comparative list birds Europe and No. Amer., 1838, p. 11. "WESTERN AND NORTHERN PARTS" OF NO. AMERICA.

Certhia familiaris Linné. Audubon, Birds of Amer., 1841, p. 109, pl. 115. Egg, Capen, 1886, pl. 2, fig. 10.

Cool mixed or coniferous woods in summer, tree growth generally at other seasons; nests behind loose flake of bark.

ME.— Common migrant, less common summer and winter resident. Eggs, May 31–June 23.

N. H.— Resident, breeding locally south of White Mts., and more commonly north. Eggs, May.

VT.— Common migrant and winter resident; uncommon local summer resident.

MASS.— Common migrant and winter resident; less common summer resident in western part, but rare and local in eastern swamps (to Taunton). Sept. 12–May 8; summer. Eggs, May 6–23.

R. I.— Common migrant and winter resident. Sept. 2–April 26.

CONN.— Common migrant and winter resident; rare summer resident. Late Sept.–late April (summer).

SITTIDAE.

385. SITTA CAROLINENSIS Latham.

White-breasted nuthatch; Sapsucker.

Lath., Index ornith., 1790, vol. 1, p. 262. "IN AMERICA, JAMAICA; EUROPAEA MINOR." Audubon, Birds of Amer., 1842, vol. 4, p. 175, pl. 247. Egg, Capen, 1886, pl. 2, fig. 8.

Orchards, shade and forest trees; nests in holes in trees or stumps.

Me., N. H., Vt.— Common migrant, uncommon summer and winter resident. Eggs, May 1–15 (Me.).

Mass.— Common migrant and winter resident; uncommon summer resident. Eggs, April 3–May 1.

R. I.— Common migrant and winter resident; uncommon summer resident. Sept. 14–April 22; summer. Eggs, April 20–May 22.

Conn.— Common migrant and winter resident, less common summer resident. Eggs, May 8–June 7.

386. Sitta canadensis Linné.

Red-breasted nuthatch; Canada nuthatch; Red-bellied nuthatch.

Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 177. "Canada." Audubon, Birds of Amer., 1842, vol. 4, p. 179, pl. 248. Egg, Capen, 1886, pl. 2, fig. 9.

Coniferous woods, or, on migrations, tree growth generally; nests in holes excavated in dead trees.

Me.— Common resident south to Cape Elizabeth; elsewhere a periodically common winter resident. Eggs, May 6–June 2 (early July).

N. H.— Common resident from White Mts. north, elsewhere a rare summer and irregular winter resident. Eggs, May 20.

Vt.— Uncommon winter visitor and local summer resident. Eggs, May 5–30.

Mass.— Irregular fall and winter visitor; in western part at higher levels an uncommon, and elsewhere a rare and irregular summer resident. Aug. 15–May 20; summer. Eggs, May 18–June 10.

R. I.— Uncommon and irregular fall and winter visitor. Oct. 5–winter.

Conn.— Uncommon and irregular fall and winter visitor. (Aug. 28) Sept. 24–April 19.

PASSERES. OSCINES.

PARIDAE.

387. BAEOLOPHUS BICOLOR (Linné) Cabanis.

Tufted titmouse.

Parus bicolor Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 340. "IN AMERICA SEPTENTRIONALI." Audubon, Birds of Amer., 1841, vol. 2, p. 143, pl. 125.

Woodlands generally; nests in holes of trees and stumps.

ME.— Accidental visitor: near Orono.

N. H., VT.— Doubtfully recorded.

CONN.— Rare visitor: near Hartford; Lyme, Feb. 27, 1872, Jan. 1874; New Haven (Linsley).

388. PENTHESTES ATRICAPILLUS (Linné) Ridgway.

Chickadee; Black-capped chickadee or titmouse.

Parus atricapillus Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 341. "CANADA." Audubon, Birds of Amer., 1841, vol. 2, p. 146, pl. 126. Egg, Capen, 1886, pl. 2, figs. 4, 5.

Tree growth generally; nests near water in low dead stumps.

ME.— Common resident. Eggs, May 10–June 18.

N. H.— Common resident, breeding below 3000 ft.

VT.— Common resident. Eggs, May 10.

MASS.— Common winter and less common summer resident. Eggs, May 4–June 25.

R. I.— Common winter and less common summer resident. Eggs, May 9–18.

CONN.— Common resident. Eggs, May 10–June 4.

389. PENTHESTES HUDSONICUS (Forster) Ridgway.

Hudsonian chickadee.

Parus hudsonicus Forst., Phil. trans. roy. soc. London, 1772, vol. 62, pp. 408, 430. "SEVERN RIVER. . . . AD SINUM HUDSONIS." Audubon, Birds of Amer., 1841, vol. 2, p. 155, pl. 128. Egg, Capen, 1886, pl. 2, figs. 6, 7.

PARIDAE.

Spruce and fir forests; nests in holes in low trees or stumps.

Me.— Rare resident in northern and eastern counties; elsewhere an uncommon or rare winter visitor.

N. H.— Uncommon resident mainly above 3000 ft. on White Mts., north; elsewhere a rare winter visitor.

Vt.— Uncommon resident in northern part and on higher mountains (Mt. Stratton, Sutton); elsewhere a rare winter visitor.

Mass.— Rare late fall and winter visitor; once in Plymouth Co., June 5, 1896. Oct. 18–April 5 (June 5).

R. I.— Accidental late fall visitor: Smithfield, Nov. 1, 1880.

Conn.— Accidental late fall visitor: New Haven, Nov. 13, 1875.

SYLVIIDAE.

390. Regulus satrapa Lichtenstein.

Golden-crowned kinglet; Golden-crested wren.

Licht., Verzeichn. d. doubl. d. Mus. Berlin, 1823, p. 35. "Am[erica] sept[entrionali]." Audubon, Birds of Amer., 1841, vol. 2, p. 165, pl. 132. Egg, Capen, 1886, pl. 2, figs. 1, 2.

Spruce and fir forests in summer, tree growth generally at other times; nests in conifers.

Me.— Common migrant and less common winter resident; common summer resident in northern part. Eggs, June 15–24.

N. H.— Common migrant, less common winter resident; common summer resident from White Mts. north, local to the south. Eggs, May 24.

Vt.— Common migrant and winter resident; less common local summer resident. Sept. 18–May 7; summer.

Mass.— Common migrant and winter resident; uncommon summer resident in western part but rare and local in eastern (Lynn, Plymouth Co., Winchendon). Sept.–April; summer. Eggs, May–June 29.

R. I.— Common migrant and winter resident. Sept. 25–April 2.

SYLVIIDAE.

CONN.— Common migrant and winter resident. Oct. 13–May.

391. REGULUS CALENDULA (Linné) Lichtenstein.

Ruby-crowned kinglet; Ruby-crested wren.

Audubon, Birds of Amer., 1841, vol. 2, p. 168, pl. 133.

Motacilla calendula Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 337. "PENNSYLVANIA."

Spruce and fir forests, and in migrations, tree growth generally; nests in conifers.

ME.— Common migrant and probably a rare summer resident in northern part (Ft. Kent, with young; near Bangor, nest without eggs). April 14–May 16 (May 23); (summer); Sept. 25–Oct. 22.

N. H.— Common migrant. April 14–May 11; Sept. 9–Oct. 20.

VT.— Common migrant. April 11; fall.

MASS.— Common migrant; casual in winter (at Highland Light, Jan. 15, 1892; Fresh Pond, Cambridge, Dec. 23, 1899). April 5–May 13; Sept. 23–Nov. 20 (winter).

R. I.— Common migrant. April–May 6; Oct.

CONN.— Common migrant. April 11–(May 16); Oct. 13–Nov. 24.

392. POLIOPTILA CAERULEA (Linné) Sclater.

Blue-gray gnatcatcher.

Motacilla caerulea Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 337. "PENNSYLVANIA."

Culicicapa caerulea Lath. Audubon, Birds of Amer., 1840, vol. 1, p. 244, pl. 70. Egg, Capen, 1886, pl. 2, fig. 3.

Woodlands; nests in trees.

ME.— Accidental visitor: Cape Elizabeth, Aug. 29, 1880; April 18, 1896.

N. H., VT.— Doubtfully recorded.

MASS.— Accidental visitor (? may once have bred near Taunton). Aug. 27–Dec. 18.

SYLVIIDAE.

R. I.— Accidental visitor (several instances). May 23, June 24.

CONN.— Rare summer visitor (five instances, *nec* Wauregan). April 6–Sept. 1.

TURDIDAE.

393. HYLOCICHLA MUSTELINA (Gmelin) Ridgway.

Wood thrush; Mountain thrush (Vt.); **Swamp angel; Swamp thrush; Wood robin.**

Turdus mustelinus Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 817. "IN NOVEBORACO." Seebohm and Sharpe, Monogr. of Turdidae, 1898, pt. 4, pl. 43. Chapman, Handb. birds east. No. Amer., 1895, p. 395, fig. Egg, Capen, 1886, pl. 1, fig. 2.

Bushy growth near edges of moist shady woods; nests in bushes or trees.

ME.— Rare summer resident in southwestern part (to Franklin Co.). Spring–Sept. 6.

N. H.— Rare summer resident north to White Mt. valleys. May 15–Sept.

VT.— Uncommon summer resident at lower elevations (to Mt. Mansfield and Willoughby Lake). May 10–fall.

MASS.— Common summer resident, mainly at low elevations. (April 26) May 1–Sept. 28 (Oct. 10; Nov. 18, 1897, Wellesley Hills). Eggs, May 25–June 15 (June 26).

R. I.— Common summer resident. May 4–Sept. Eggs, May 21–June 6.

CONN.— Common summer resident. May 1–Oct. Eggs, May 27–June 21.

394. HYLOCICHLA FUSCESCENS (Stephens) Ridgway.

Wilson's thrush; Cheeury; Nightingale; Swamp robin; Tawny thrush; Veery.

Turdus fuscescens Steph., Shaw's Gen. zool., 1817, vol. 10, pt.

1, p. 182. "TO THE NORTH OF PENNSYLVANIA." Seebohm and Sharpe, Monogr. Turdidae, 1898, pt. 4, pl. 44. Egg, Capen, 1886, pl. 1, fig. 7.

Swamps and undergrowth along streams; nests on or near the ground, rarely in trees.

ME.— Common summer resident. (? April 17, 26) May 1–Sept. 20 (Oct. 15). Eggs, June 1–18 (July 1).

N. H.— Common summer resident below 1500 ft. May 10–Sept. Eggs, June 9.

VT.— Common summer resident. May 11–Sept. Eggs, May 30–June 28 (July 26).

MASS.— Common summer resident. (April 30) May 1–Sept. 27 (Oct. 14, 1871, Fresh Pond, Cambridge). Eggs, May 20–June 30.

R. I.— Common summer resident. (April 29)–Sept. 25. Eggs, May 26–31.

CONN.— Common summer resident. May 1–Sept. 1.

395. HYLOCICHLA FUSCESCENS SALICICOLA Ridgway.

Willow thrush; Newfoundland thrush.

Ridgw., Proc. U. S. nat. mus., 1882, vol. 4, p. 374. "ROCKY MOUNTAIN REGION....FORT GARLAND, COLO.," etc.

Swamps and undergrowth bordering streams; nests on or near the ground.

MASS.— Rare migrant: Lanesboro, Sept. 27, 1900; Lowell (these are the race "*fuliginosa*" Howe, considered by the A. O. U. committee inseparable from *salicicola* and by Ridgway as synonymous with *H. fuscescens*).

R. I.— Rare migrant: Bristol, Sept. 24, 1899; Newport, Sept. 25, 1885.

CONN.— Rare migrant. May 5, 6, 14, 16; Sept. 23 (= *salicicola*, Bishop).

PASSERES. OSCINES.

TURDIDAE.

396. HYLOCICHLA ALICIAE (Baird) Ridgway.

Gray-cheeked thrush; Alice's thrush; Arctic thrush.

Turdus aliciae Baird, U. S. war dept., expl. and surv. Miss. Riv. to Pac. Ocean, 1858, pt. 2, birds, p. 217. "ILLINOIS, ... UPPER MISSOURI." Seebohm and Sharpe, Monogr. Turdidae, 1898, pt. 4, pl. 45, fig. 1.

Dense fir thickets in summer, moist shaded spots on migration; nests in low trees.

ME.— Uncommon migrant. May 20–25; Sept. 20.

N. H.— Rare migrant: Dublin, Oct. 2, 1899.

VT.— Rare migrant. May 18.

MASS.— Uncommon migrant. (May 13) May 17–June 3 (June 18); Sept. 10–Oct. 9.

R. I.— Uncommon migrant. May 20; Sept. 23–Oct. 7.

CONN.— Uncommon migrant.

397. HYLOCICHLA ALICIAE BICKNELLI Ridgway.

Bicknell's thrush.

Ridgw., Proc. U. S. nat. mus., 1882, vol. 4, p. 377. "SLIDE MOUNTAIN, ULSTER COUNTY, NEW YORK." Bull. 50, U. S. nat. mus., 1907, pt. 4, p. 62. (Unfigured).

Fir and spruce thickets in summer, moist shady spots on migration; nests in low trees.

ME.— Common local summer resident on higher mountain tops (Mt. Abraham, Ktaadn, etc.); Maine breeding birds may be true *aliciae* (Knight). May–Sept. 20.

N. H.— Common summer resident above 3000 ft. to tree limit among White Mts., south to Sandwich Range. May 25–Sept. 15. Eggs, June 22.

VT.— Uncommon summer resident on higher mountains: Jay Peak, Mt. Annanance, Mt. Killington, Mt. Mansfield, Pico Peak, etc. May–Sept. Eggs, June 22.

MASS.— Uncommon migrant, and on summit of Mt. Greylock

(3505 ft.) a rare summer resident. (May 2)–May 30; summer; Sept. 18–Oct. 25.

R. I.— Uncommon migrant. Oct. 9.

CONN.— Uncommon migrant.

398. HYLOCICHLA USTULATA SWAINSONII (Cabanis) Ridgway.

Olive-backed thrush; Flycatching thrush; Mosquito thrush; Swainson's thrush; Swamp robin.

Turdus swainsonii Cab., Fauna Peruana, 1845–46, p. 188. "PERU"; specimen described from NEW JERSEY (= type locality). Seebohm and Sharpe, Monogr. Turdidae, 1898, pt. 4, pl. 45, fig. 3.

Turdus ustulatus swainsonii (Cab.). Chapman, Handb. birds east. No. Amer., 1895, p. 398. Egg, Capen, 1886, pl. 1, figs. 5, 6.

Cool shady thickets; nests in low trees or bushes.

ME.— Common migrant and in northern part a common summer resident. (May 6) May 9–26; summer–Oct. 23. Eggs, May 29–June 9 (early July).

N. H.— Common migrant, and from White Mts. north a common summer resident, local to the south. May 16–Oct. Eggs, June 16–July 11.

VT.— Common migrant and less common summer resident mainly in northern part and at higher levels south to Londonderry.

MASS.— Common migrant and in higher parts of Berkshire Co., an uncommon summer resident. May 3–June 7; summer; Sept. 9–Oct. 21.

R. I.— Common migrant. May 8–; Sept. 27–Oct. 2.

CONN.— Common migrant. May 10–26; Sept. 4–Oct. 13.

399. HYLOCICHLA GUTTATA PALLASII (Cabanis) Faxon and Hoffmann.

Hermit thrush; Ground swamp robin (Me.); Rufous-tailed thrush; Solitary thrush; Swamp robin or thrush; Woodchuck.

Turdus pallasii Cab., Arch. f. naturgesch., 1847, vol. 13, pt. 1,

p. 205. Locality not given; based on Cab., in Tschudi's Fauna Peruana. Seebohm and Sharpe, Monogr. Turdidae, 1898, pt. 4, pl. 46, fig. 2.

Turdus aonalaschkae pallasii (Cab.). Chapman, Handb. birds east. No. Amer., 1895, p. 400. Egg, Capen, 1886, pl. 1, figs. 3, 4.

Undergrowth of dry woods; nests on the ground.

Me.— Common migrant and summer resident; may winter rarely. (April 5) April 13–Nov. 26 (Dec. 25, 1904, Cape Elizabeth). Eggs, (May 1) May 17–June 10; July 14–Aug. 10 (2d brood).

N. H.— Common migrant and summer resident below 3000 ft. (April 5) April 10–Nov. 24. Eggs, –July 8.

Vt.— Common migrant and summer resident. (April 4) April 10–fall.

Mass.— Common migrant, less common summer resident in western, local in eastern part (Cape Cod, Martha's Vineyard); rare winter resident near coast. (April 1) April 8–Nov. 30 (winter). Eggs, June 14.

R. I.— Common migrant and rare winter resident; rare local summer resident (Kent Co.). April 10–(summer); Oct.–Nov. 20 (Dec. 3, winter). Eggs, June 6.

Conn.— Common migrant, uncommon local summer resident (Bear Mt., Hartford Co., Norfolk, Salisbury); rare winter resident. (April 3) April 12–May; summer; Oct.–Nov. 20 (winter).

400. Planesticus migratorius (Linné) Coues.

American robin.

Turdus migratorius Linné, Syst. nat., ed. 12, 1766, vol. 1, p. 292. "in America septentrionali." Audubon, Birds of Amer., 1841, vol. 3, p. 14, pl. 142. Egg, Capen, 1886, pl. 1, fig. 1.

Ubiquitous, but avoiding woods in breeding season; nests in trees, on ledges of buildings, or on the ground.

Me., N. H., Vt.— Common migrant and summer resident; rare winter resident mainly in southern part. Mar. 3–Nov.; win-

ter. Eggs. (Me.) April 28–June 15; July–early Aug. (2d and 3d broods).

Mass.— Common migrant and summer resident; less common winter resident chiefly near coast. Mar. 8–Nov. 23; winter. Eggs, April 25–July 25 (2d brood) (! Oct. 29, 1903, Brandon).

R. I.— Common migrant, less common summer and winter resident. Mar. 11–Nov. 28; winter. Eggs, April 17–June 7; July.

Conn.— Common migrant and summer resident; less common winter resident. Feb. 18–Nov.; winter. Eggs, April 27–July 2.

401. Ixoreus naevius (Gmelin) Richmond.

Varied thrush.

Turdus naevius Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 817. "in sinu Americae Natca."

Orpheus meruloides (Swains.). Swainson and Richardson, Fauna Boreali-Amer., 1831, vol. 2, p. 187, pl. 38.

Evergreen forests; nests in trees.

Mass.— Accidental visitor: Ipswich, Dec. 1864.

402. Sialia sialis (Linné) Haldeman.

Bluebird.

Motacilla sialis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 187. "in Bermudis & America calidiore."

Sialia wilsonii Swains. Audubon, Birds of Amer., 1841, vol. 2, p. 171, pl. 134. Egg, Capen, 1886, pl. 1, figs. 14, 15.

Orchards and open country; nests in hollow limbs or in bird houses.

Me.— Common migrant and summer resident. (Feb. 28) Mar. 10–Nov. 14. Eggs, April 21–May 15; June 24–July 6 (2d brood).

N. H.— Common migrant and less common summer resident at lower elevations. Mar. 2–Oct. 25. Eggs, May 1–June 25.

TURDIDAE.

VT.— Common migrant and summer resident. (Feb. 23) Mar. 17–Oct. 16.

MASS.— Common migrant, less common summer resident; near coast, a rare winter resident (Melrose Highlands, Roxbury, Wellesley, Cape Cod). (Feb. 23) Mar. 1–Nov. 20 (Dec. 10, 29); winter. Eggs, April 15–June 5.

R. I.— Common migrant, less common summer resident, and occasional winter resident. Mar. 2–Nov. 27; winter. Eggs, (Mar. 1, Westerly) April 7–20.

CONN.— Common migrant and summer resident; uncommon winter resident. Mar. 5–Nov. 13; winter. Eggs, April 15–June 14.

SPECIES INTRODUCED OR ERRONEOUSLY ACCREDITED.

COLYMBUS CRISTATUS Linné. **Crested grebe.**— An Old World species erroneously recorded by early writers.

AETHIA CRISTATELLA (Pallas). **Crested auklet.**— Doubtfully recorded from Chatham, Mass., winter of 1884–85.

CEPPHUS MANDTII (Lichtenstein). **Mandt's guillemot.**— The supposed Maine specimen proves to be *C. grylle*, and the Massachusetts record is too doubtful for acceptance.

PUFFINUS PUFFINUS (Brünnich). **Manx shearwater.**

PUFFINUS "CINEREUS" (= KUHLI Gould). **Mediterranean shearwater.**— European species listed from New England by several of the older writers but probably in error for *P. gravis* or *P. borealis*.

THALASSIDROMA PELAGICA (Linné). **Stormy petrel.**— Given on authority of Boardman as a rare summer visitor "off the coast of Eastern Maine," but the record is not allowed by Knight.

PELAGODROMA MARINA (Latham). **White-faced petrel.**— A specimen taken in lat. 40° 34′ 18″ N., long. 66° 09′ W., Sept. 2, 1885, was included in Dr. J. A. Allen's list of Massachusetts birds (1886), but the locality is outside the limits covered by the present catalogue.

PHALACROCORAX GRACULUS (Linné). **Green cormorant.**— This European species is accredited to Massachusetts by W. B. O. Peabody, who doubtless confused it with the American *P. auritus*.

MERGELLUS ALBELLUS (Linné). **Smew.**— Accredited by Samuels to Massachusetts, but apparently without good reason.

CHENALOPEX AEGYPTIACUS (Linné) Stephens.

Egyptian goose.

Salvadori, Cat. birds British mûs., 1895, vol. 27, p. 169; Gould, Birds of Europe, 1837, vol. 5, pl. [353]. Egg, Seebohm, 1896, p. 36, pl. 12, fig. 1.

Anas aegyptiaca Linné, Syst. nat., ed. 12, 1766, vol. 1, pt. 1, p. 197. "IN AEGYPTO?"

Rivers and marshes; nests on the ground.

MASS.— The several instances of capture may relate to either accidental visitors or escapes.

ARDEA OCCIDENTALIS Audubon. **Great white heron.**— Recorded from Massachusetts in error for *Herodias egretta*.

SCOLOPAX RUSTICOLA Linné. **European woodcock.**— Doubtful reference to this species at Newport, R. I.; ? Maine.

TOTANUS NEBULARIUS (Gunnerus). **Greenshank.**— This Old World species was accredited to Connecticut by Linsley who states that a specimen was killed at Stratford in fall of 1842.

ORTYGOMETRA PICTUS (Douglas) Baird.

Mountain partridge; Plumed partridge.

Ortyx picta Dougl., Trans. Linn. soc. London, 1829, vol. 16, p. 143. "INTERIOR OF CALIFORNIA."

Ortix plumifera Gould. Audubon, Birds of Amer., vol. 5, p. 69, pl. 291.

Thickets and open woods; nests on the ground.

MASS.— Introduced unsuccessfully about 1890.

LOPHORTYX CALIFORNICUS (Shaw) Bonaparte.

California partridge or quail.

Tetrao californicus Shaw, Naturalist's miscellany, 1797 (?), vol. 9, pl. 345 and text. "CALIFORNIA."

Callipepla californica (Shaw). Gould, Monogr. of Odontophorinae No. Amer., 1850, p. [57], pl. [16]. Egg, Bendire, 1892, vol. 1, pl. 1, fig. 8–10.

Bushy lowlands; nests on the ground.

MASS.— Unsuccessfully introduced in Berkshire Co. about 1890.

CONN.— Introduced: Bridgeport, Dec. 1840.

LOPHORTYX GAMBELLI Gambel.

Gambel's partridge.

Gambel (ex Nuttall), Proc. acad. nat. sci. Phila., 1843, p. 260. "WEST OF CALIFORNIA."

Callipepla gambelii (Nuttall). Cassin and Stephens, Illustr. birds of Calif., Texas, 1853, no. 2, p. 45, pl. 9. Egg, Bendire, 1892, vol. 1, pl. 1, fig. 11–14.

Bushy growth; nests on the ground.

MASS.— Unsuccessfully introduced in Berkshire and Bristol Cos. in 1893; Martha's Vineyard in 1890; Winchendon in 1891.

TETRAO UROGALLUS Linné.

Capercaillie; Muscovian black gamecock; Wood grouse.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 159. "IN EUROPAE FRIGIDAE PINETIS PALUDOSIS." Ogilvie-Grant, Cat. birds British mus., 1893, vol. 22, p. 62. Dresser, Birds of Europe, 1871–81, vol. 5, pl. [489], p. [490]. Egg, Seebohm, 1896, p. 274, pl. 59, fig. 11.

Mountainous forests; nests on the ground.

VT.— Introduced about 1897 at Middlebury, Rutland, and elsewhere, unsuccessfully.

TYMPANUCHUS AMERICANUS (Reichenbach) Ridgway.

Prairie hen; Prairie chicken.

Cupidonia americanus Reich., Syst. avium, 1852, p. xxix. No locality.

Tetrao cupido Linné. Audubon, Birds of Amer., 1842, vol. 5, p. 93, pl. 296. Egg, Bendire, 1892, vol. 1, pl. 2, fig. 18–20.

Grassy prairies; nests on the ground.

N. H.— Unsuccessfully introduced at Blue Mt. Park about 1893.

MASS.— Unsuccessfully introduced: Barnstable and Berkshire Cos. in the '80's; between Concord and Belmont in 1884 or 1885; Martha's Vineyard, 1902; Naushon Id.; Springfield, 1893.

R. I.— Unsuccessfully introduced about 1897.

PEDIOECETES PHASIANELLUS (Linné) Elliot.

Sharp-tailed grouse.

Baird, Brewer, and Ridgway, No. Amer. birds, 1874, vol. 3, p. 434, pl. 9, fig. 3 (head).

Tetrao phasianellus Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 160. "CANADA."

Pediaecaetes phasianellus (Linné). Elliot, Monogr. of Tetraoninae, 1865, pl. 15. Egg, Bendire, 1892, vol. 1, pl. 3, fig. 3–5.

Thickets and clearings; nests on the ground.

VT.— Unsuccessfully introduced about 1897.

MASS.— Unsuccessfully introduced near Westport about 1892.

PEDIOECETES PHASIANELLUS CAMPESTRIS Ridgway.

Prairie sharp-tailed grouse.

Ridgway, Proc. biol. soc. Washington, 1884, vol. 2, p. 93. "ILLINOIS, AND ROSEBUD CREEK, MONTANA TERR."

Tetrao phasianellus Linné. Audubon, Birds of Amer., 1842, vol. 5, p. 110, pl. 298. Egg, Bendire, 1892, vol. 1, pl. 3, figs. 9, 10.

Woods and thickets; nests on the ground.

MASS.— Unsuccessfully introduced at Springfield, 1892.

COTURNIX COTURNIX (Linné) Lichtenstein.

European quail; Migratory quail.

Ogilvie-Grant, Cat. birds British mus., 1893, vol. 22, p. 235.

Tetrao coturnix Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 161. "EUROPA, ASIA, AFRICA."

Coturnix communis Bonnaterre. Dresser, Birds of Europe, 1871–81, vol. 7, pl. [476]. Egg, Seebohm, 1896, p. 277, pl. 59, figs. 1, 3.

Meadows and fields; nests on the ground.

ME.— Introduced unsuccessfully in 1880; 2600 liberated, but failed to establish themselves. Nest at Falmouth, June.

VT.— Unsuccessfully introduced at Rutland, June, 1877.

MASS.— Unsuccessfully introduced at various places (No. Falmouth, Springfield, Wareham) between 1870 and 1890.

CONN.— Unsuccessfully introduced: Lakeville, 1878.

PERDIX PERDIX (Linné).

European partridge; Hungarian partridge; Partridge.

Tetrao perdix Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 166. "IN EUROPAE AGRIS."

Perdix cinerea Latham. Dresser, Birds of Europe, 1871–81, vol. 7, p. [131], pls. [474, 475].

Open country and thickets; nests on the ground.

CONN.— Introduced in 1908.

PHASIANUS COLCHICUS Linné.

English pheasant; Pheasant.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 158. "AFRICA, ASIA." Ogilvie-Grant, Cat. birds British mus., 1893, vol. 22, p. 321. Dresser, Birds of Europe, 1871–81, vol. 7, pl. [469]. Egg, Seebohm, 1896, p. 275, pl. 59, fig. 9.

Bushy woods; nests on the ground, rarely in trees.

N. H.— Introduced from England at Wolfboro in 18th century.

MASS.— Unsuccessfully introduced in Berksh re Co.

PHASIANUS TORQUATUS Gmelin.

Ring-necked pheasant; Denny pheasant; Ring pheasant.

Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 742. Refers to Latham's Synopsis: "CHINA....ABOUT THE CASPIAN SEA,....GREAT TARTARY, AND IN THE SOUTH OF THE MONGOLIAN DESERT." Ogilvie-Grant, Cat. birds British mus., 1893, vol. 22, p. 332. Elliot, Monogr. Phasianidae, 1872, vol. 2, pl. 5.

Thickets; nests on the ground.

VT.— Introduced successfully at Shelburne.

MASS.— Introduced at Winchester and elsewhere, since 1894, and now well established at many places, mainly in eastern part.

CONN.— Successfully introduced (Fisher's Id.).

COLUMBA DOMESTICA Gmelin.

Rock dove; Domestic pigeon; Dove; Pigeon.

Gmel., Syst. nat., 1788, vol. 1, pt. 2, p. 769. No locality.

Columba livia Linné. Dresser, Birds of Europe, 1871–81, vol. 7, p. [11], pl. [457] (upper fig., wild bird). Tegetmeier, Pigeons: their structure, varieties, habits, and management, London, 1868, 190 pp., 16 pls. Egg, Seebohm, 1896, p. 158, pl. 47, fig. 9.

Sea cliffs, nesting in crevices of rocks; now domesticated about buildings.

ME.–CONN.— Introduced under domestication but now common in a feral state in towns and cities.

BUTEO BOREALIS HARLANI (Audubon). **Harlan's hawk.** Accredited to Massachusetts by Peabody on Nuttall's authority, probably in error.

"BUTEO COOPERI" Cassin. **Cooper's hen-hawk; California hawk.** A record for Cambridge, Mass., is believed to have been based on a very light-colored example of *B. lineatus*.

SURNIA ULULA (Linné). **European hawk owl.**— Specimens of this and the American race are said to have been taken at Houlton, Me., in 1877, but probably all were *S. u. caparoch*.

DRYOBATES VILLOSUS LEUCOMELAS (Boddaert). **Northern hairy woodpecker.**— Under this name Chadbourne lists the Hairy woodpecker from Williamstown, Mass., probably in error for *D. villosus*.

SPHYRAPICUS VARIUS NUCHALIS Baird. **Red-naped sapsucker.**— The supposed New Hampshire and Massachusetts specimens prove to be *S. varius varius*.

AGYRTRIA VIRIDISSIMA (Lesson). **Linne's hummingbird.**— The authenticity of the supposed Cambridge specimen is open to doubt.

ALAUDA ARVENSIS Linné.

Skylark; Laverock.

Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 165. "IN EUROPAE APRICIS." Ridgway, Bull. 50, U. S. nat. mus., 1907, pt. 4, p. 292; Dresser, Birds of Europe, 1871–81, vol. 4, pl. [231]. Egg, Beudire, 1895, vol. 2, pl. 5, fig. 23.

Open country, fields and meadows; nests on the ground.

MASS.— Unsuccessfully introduced from Europe at Cambridge, prior to 1880.

MUNIA ORYZIVORA (Linné). **Java sparrow.**— A specimen was taken at Belmont, Mass., Nov. 2, 1884, but this and others are doubtless escaped cage birds.

MUNIA ATRICAPILLA (Vieillot). **Rufous and black weaver finch.** — A specimen of this Indian species, (doubtless an escape), was captured near Brunswick, Maine, in March, 1879 (recorded as *Amadina rubronigra*).

STURNELLA NEGLECTA Audubon. **Western meadowlark.**— Doubtfully recorded from Taunton, Mass.

MEGAQUISCALUS MAJOR (Vieillot). **Boat-tailed grackle.**— Formerly accredited to Maine, Massachusetts, and Connecticut but probably the Bronzed grackle was the species observed.

SERINUS BUTYRACEA (Linné) Bonaparte.

Yellow finch.

Fringilla butyracea Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 181. "MADERA."

Serinus flaviventris (Swains.). Sharpe, Cat. birds British Mus., 1888, vol. 12, p. 353.

A South African species.

MASS.— Accidental visitor or escape: South Scituate, Feb. 1879, with flock of Redpolls.

SERINUS SERINUS (Linné) Sharpe.

Serin finch.

Sharpe, Cat. birds British mus., 1888, vol. 12, p. 369.

Fringilla serinus Linné, Syst. nat., ed. 12, 1766, vol. 1, pt. 1, p. 320. "IN EUROPA AUSTRALI."

Serinus hortulanus Koch. Dresser, Birds of Europe, 1871–81, vol. 3, [pl. 170]. Egg, Seebohm, 1896, p. 240, pl. 56, fig. 16.

Open country, orchards and gardens; nests in trees.

MASS.— Probably escaped cagebird: Springfield, Nov. 1866.

PASSER DOMESTICUS (Linné) Koch.

House sparrow; English sparrow; European house sparrow.

Ridgway, Birds No. and Middle Amer., Bull. 50, U. S. nat. mus., 1901, pt. 1, p. 143. Dresser, Birds of Europe, 1876, vol. 3, p. [587], pl. [176], fig. 1. Egg, Seebohm, 1896, p. 238, pl. 56, fig. 10–12.

Fringilla domestica Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 183. "IN EUROPA PROPE RURA."

Villages and cities in vicinity of dwellings; nests in trees, vines, or any cavity.

ME.— Common resident; introduced at Portland in 1854 and 1858, at Lewiston in 1874, at Bangor about 1875.

N. H.— Resident, common about large cities, less common in White Mt. valleys.

VT.— Common resident about towns and cities; introduced at St. Johnsbury between 1874 and 1876.

MASS.— Common resident about towns and cities; introduced at Boston in 1858 and 1868, Brookline, 1868, Charlestown, 1869, Cottage C ty about 1882, Somerville, 1871.

R. I.— Common resident; introduced at Peacedale in 1858, Providence in 1866 or before, Newport, 1874.

CONN.— Common resident; introduced at New Haven in 1867, Norwich and Meriden between 1865 and 1870, Portland, 1869.

ACANTHIS BREWSTERII (Ridgway).

Brewster's linnet.

Brewster, Mem. Nuttall ornith. club, 1906, no. 4, pl. 6.

Aegiothus (*flavirostris* var.) *brewsterii* Ridgw., Amer. nat., 1872, vol. 6, p. 433. "WALTHAM, MASSACHUSETTS."

Status uncertain; probably a hybrid between *Acanthis linaria* and *Spinus pinus*.

MASS.— Only known specimen taken at Waltham, Nov. 1, 1870.

CARDUELIS CARDUELIS (Linné) Schäffer.

European goldfinch.

Ridgway, Bull. 50, U. S. nat mus., 1901, pt. 1, p. 94. Egg, Seebohm, 1896, p. 241, pl. 56, fig. 17.

Fringilla carduelis Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 180. "IN EUROPAE JUNIPERETIS."

Carduelis elegans Steph. Dresser, Birds of Europe, 1871-81, vol. 3, pl. [166].

Open country, orchards, and deciduous woods; nests in trees.

MASS.— Introduced in eastern part, but not well established; bred near Worcester, July 11, 1890.

CONN.— Escape, or straggler from lots introduced in neighboring country: New Haven, May 9, 1892.

RYNCHOPHANES MACCOWNII (Lawrence). **McCown's longspur.**— Doubtfully recorded for Massachusetts on the basis of a market specimen said to have been taken at Ipswich, Jan. 7, 1877.

COTURNICULUS BAIRDII (Audubon). **Baird's sparrow.**— The first known specimens of *Passerculus princeps* were recorded under this name.

PEUCAEA AESTIVALIS BACHMANII (Audubon). **Bachman's finch.**— Recorded from Berlin, Mass., in error for *Ammodramus henslowii*.

PASSERINA CIRIS (Linné) Vieillot.

Painted bunting; Nonpareil.

Emberiza ciris Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 179. "AMERICA."

Spiza ciris (Wils.). Audubon, Birds of Amer., 1841, vol. 3, p. 93, pl. 169.

Thickets and hedges; nests in bushes or low trees.

ME.— "Escape," Portland, June 10, 1904.

MASS.— Four instances; believed to be escaped cape birds.

R. I.— Accidental visitor or escape: Scituate, summer, 1882.

PAROARIA CUCULLATA (Latham). **Crested cardinal.**— A South American species, once taken at Newport, R. I., Sept., 1885, but doubtless an escaped cagebird.

GUBERNATRIX CRISTATA (Vieillot).— A South American finch, of which a specimen supposed to be an escape, was taken at Providence, R. I., July 7, 1888.

VIREO ATRICAPILLUS Woodhouse. **Black-capped Vireo.**— Very doubtfully recorded from Lanesboro, Mass.

HELINAIA SWAINSONII (Audubon). **Swainson's warbler.**— Erroneously accredited to Massachusetts by Audubon.

HELMINTHOPHILA LAWRENCEI (Herrick) Ridgway.

Lawrence's warbler.

Ridgway, Bull. 50, U. S. nat. mus., 1902, pt. 2, p. 452.

Helminthophaga lawrencii Herrick, Proc. acad. nat. sci. Phila., 1874, p. 220, pl. 15. "NEAR CHATHAM, NEW JERSEY."

Probably a hybrid form between *H. pinus* and *H. chrysoptera*, which it resembles in habits.

MASS.— One recorded as seen at Dedham, May 27, 1908.

CONN.— Summer resident: Bridgeport, New Haven, Portland, Stamford. May 12–July. Eggs, June 14.

HELMINTHOPHILA LEUCOBRONCHIALIS (Brewster) Ridgway.

Brewster's warbler; White-throated warbler.

Helminthophaga leucobronchialis Brewst., Bull. Nuttall ornith. club, 1876, vol. 1, p. 1, pl. 1. "NEWTONVILLE, MASS."

Probably a hybrid form between *H. pinus* and *H. chrysoptera*, which it resembles in habits.

MASS.— Rare summer resident in eastern part (Hudson, Lexington, Newtonville, Jamaica Plain). May 14–summer. Eggs, June 8–18.

CONN.— Rare summer resident. May 6–Aug. 8. Eggs, June 24.

"MUSCICAPA MINUTA" Wilson = WILSONIA MICROCEPHALA (Ridgway). **Small-headed flycatcher.** An hypothetical species, described by Wilson and accredited to Massachusetts by Nuttall, Brewer, and Peabody.

PENTHESTES ATRICAPILLUS SEPTENTRIONALIS (Harris). **Long-tailed chickadee.** Erroneously recorded from Rhode Island; the specimen proves to be *P. a. atricapillus*.

SYLVIA ATRICAPILLA (Linné) Scopoli.

European blackcap warbler; Blackcap.

Dresser, Birds of Europe, 1871–81, vol 2, p. [421], pl. [66]. Egg, Seebohm, 1896, p. 201, pl. 52, fig. 17–19.

Motacilla atricapilla Linné, Syst. nat., ed. 10, 1758, vol. 1, p. 187. "IN EUROPA."

Groves and orchards; nests in bushes.

MASS.— Unsuccessfully introduced at Cambridge prior to 1877.

TURDUS PILARIS Linné. **Fieldfare.**— A European species, once taken near Stamford, Conn., Mar. 1888, but this probably an escaped cagebird.

PLANESTICUS MERULA (Linné). **Blackbird.**— A male, probably an escape, spent the writer of 1908–09 near the Boston public garden.

SAXICOLA OENANTHE LEUCORHOA (Gmelin). **Greenland wheatear.**— The supposed Maine records in reality refer to birds taken across the line in New Brunswick.

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